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JOHNS HOPKINS SPECTROSCOPIC REPORT NUMBER 17

THE FIRST AND SECOND POSITIVE BANDS OF N2

by

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### ABSTRACT

The first and second positive groups of  $N_2$  have been photographed with a low pressure discharge cooled with liquid nitrogen and better resolution achieved than in previous work. The rotational analysis of 21 bands of the first and 9 of the second positive group has yielded the energy levels of  $A^3\Sigma$  to v=12, of  $B^3\Pi$  to v=18 and of  $C^3\Pi$  to v=4 to within about 0.01 cm<sup>-1</sup> relative to each other and to within about 1 cm<sup>-1</sup> with respect to the normal state of the molecule. With these levels the lines in all other bands can be calculated to within the limits of experimental errors. In the second positive group a number of weak satellite branches were found that have not been observed before.

Exposures at higher temperatures and an afterglow in argon have yielded more information about the perturbations of the C<sup>3</sup>II state. The anomalous intensities in these perturbations have been well interpreted as abnormal occupation of the upper states rather than abnormal transition probabilities. The deviations from thermal equilibrium promise interesting information about the excitation mechanism of the second positive group.

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# 1. Introduction

The spectrum of  $N_2$  is one of the most extensively investigated molecular spectra. Nevertheless there are still many imperfectionally analyzed features. Moreover the results of the previous investigations have often been published in a form that offers no real help to later investigators who want to revise an analysis or deal with features not included in the earlier work.

The growing importance of upper air research has made it desirable to have all fundamental data on the  $N_2$  spectrum readily available. We have therefore started on a revised analysis of some parts of the spectra of the constitutents of air in order to provide such data. The present report deals with the first and second positive groups of  $N_2$  which form the overwhelmingly conspicuous features in the spectrum of a discharge in  $N_2$  or air in the visible and the near ultraviolet and infrared.

For the excitation of these two band systems see a previous report (Heath, 1959). The present report gives new measurements of parts of the two systems with improved resolution and accuracy, an analysis of the measured bands and a number of features emerging from the analysis.

# 2. Experimental Procedure

The complexity of the first positive group and, to a smaller extent, also that of the second group is the greatest handicap to a successful analysis. There are unavoidably many overlappings and close blends which even spectrographs with the highest available resolution cannot resolve. Much improvement can be accomplished by obtaining the spectra at low temperatures and accordingly most of our spectra were photographed in a low pressure ( < 0.01 mm) nitrogen discharge tube immersed in liquid nitrogen. The rotational structure is then contracted to such a degree that in the 2nd group all neighboring bands are completely separated. Even in the first positive group this is true at the long wavelength end. At the shorter wavelengths, where the bands are more crowded there is still some overlapping but it is no more very serious. In all cases the low-lying lines are strengthened so much that there is no difficulty in their proper identification. The low pressure and low temperature has a favorable effect on the sharpness of the lines so that in most cases our resolution is better than that of previous observers.

The excitation of the discharge was by external electrodes and a 200 megacycle oscillator. The brightness was adequate so that even the weaker bands appeared satisfactorily with an exposure of a few hours.

The bands were photographed with a 21 foot grating in a Faschen mounting. The grating, a new B and L original grating, has a width of 7 inches and 30 000 lines per inch and, for most ragions of the spectrum,

about 70% of the theoretical resolving power. The disgression is about 1.2 Å/mm in the first order. It was used in the second and third orders for the second positive group in the first order for the first group.

That our resolution is better than obtained by previous workers is shown by the fact that we can resolve clearly the .1 -doubling in the R<sub>2</sub> branches\* of the second positive group which have been reported as unresolved lines in all previous work. The accuracy of our wavelength measurements should also be better than that of most previous observers.

Enough bands were measured to obtain virtually all the known vibrational and rotational levels of the three electronic states  $A^3\Sigma$ ,  $B^3\Pi$ ,  $C^3\Pi$  which are involved in the first and second positive groups of nitrogen. In general such bands were chessal for measurement as to give the best possibility for complete resolution of the rotational structure. The rotational analysis of many of them is given here for the first time. We made it a point however to measure a few bands reported in the literature in order to have a basis for comparison with previous work.

In general our low temperature discharge conditions made it possible to obtain the rotational levels to not higher than J=15, but there was no difficulty whatsoever to obtain the lowest rotational levels in each case which often have been absent from previous analyses or uncertain.

We have made an attempt at completeness only insofar as the lower rotational levels are concerned. There are many additional bands with excellent resolution on our plates which could easily been analysed if time would have permitted this. These additional bands would however furnish no new levels and the frequencies of all their lines can be easily calculated from the energy levels given in tables 5-7. We have assured ourselves by analyzing a few such bands with known initial and final levels that the lines so calculated agree well (to within a few times 0.01 cm<sup>-1</sup>) with the observed ones.

Tables 1 and 2 show the bands with the rotational structure given in this report and those analyzed by previous observers.

The low temperature condition of the bands is the one expected in the upper atmosphere. We have also photographed the bands at progressively higher rotational temperatures. This is most easily accomplished by photographing them at higher gas pressures. This much more effectively raises the temperature of the gas in the discharge tube through collisions with excited molecules than raising the ambient temperature. Only very few bands, the 2-0 band and part of the 7-6 band of the first positive

<sup>\*</sup>For the rotation see Section 3

group and the 0-3, 1-4, 3-7, 4-8 bands of the second group were measured and analyzed under these conditions.

No attempt was made to measure plates on which the bands were most strongly exposed. Practically are bands could be obtained easily with such a strength that all but the funtest lines would be heavily over-exposed. Measurements were usually made on plates where the main part of the band was suitably exposed.

At the higher pressures the lines are noticeably less sharp. Even higher rotational temperatures than in a discharge tube can be obtained by taking an arc in nitrogen at atmospheric pressure. No advantage would have accrued from this because of the increased diffuseness of the lines. Moreover the lines coming from the higher rotational levels would have coincided with the crowded parts of the next strong band to shorter wavelengths. (For instance those of the  $0 \rightarrow 0$  band with the strong parts of 1-0, those of  $0 \rightarrow 1$  with 0-0, etc.)

The variability of the relative intensity of the first positive group with respect to that of the second as well as the vibrational distribution has been dealt with in another report (Heath, 1959).

The afterglow of  $N_2$  excited by argon has the property that it suppresses the second positive group but brings out the first positive group strongly.

The experimental arrangement is as follows (Fig. 1): The gas is introduced into the afterglow chamber through a Y-shaped tube. Through one arm flows nitrogen through the other argon. The gas pressure in the chamber is about 5 mm. The  $N_2$  centent of the mixture can be widely varied by adjusting the relative flow rates. When the argon is excited by external electrodes in its arm of the Y-shaped tube, ablue cone is observed showing mostly the 2nd positive group where the A and  $N_2$  streams unite, and further downstream a bright yellow glow in which the first positive group and the first negative  $N_2^{\frac{1}{2}}$  bands are strong but the second positive group weak with some marked intensity anomalies (see Section 9). There are other pecularities in the spectrum of this afterglow which will be discussed together with the excitation mechanism in a subsequent report.

### 3. Notation

In the literature different notations have been used for the first and second positive groups. It is actually immaterial which notation is employed as long as it is consistent and convenient.

We designate with a subscript 1, 2, or 3 the spin states for which for large values of K

(1) J = K + 1

(2) J = K

(3) J = K-1

For large J (Hund's case b) both J and K are good quantum numbers. For small J (except for  $\Sigma$ -states) K loses its meaning and only J is a constant of the motion. Nevertheless K can be used for the numbering of the levels, if desired. It may then however acquire negative values (as for instance for the  $\Pi_i$  state). The notation outlined here is natural for a  $^3\Sigma$  state and usually has been used by those dealing with the first positive group. It will be employed here for this group.

For II states the value  $\Omega = 0$ , 1, 2 of the component of the electronic angular momentum along the internuclear axis has been used as an index to the level symbols, e. g.  $\Pi_0$ , and these numbers have in the past been generally used as indices to distinguish the triplet components, e. g.  $R_0$ ,  $R_1$ ,  $R_2$ . The indices used here are larger by one than the values of  $\Omega$  in order to make them conform to the notation used for the first positive group.

For the numbering of the lines it is customary to use the rotational quantum number of the final state of the line. Whether J or K is more logical depends on whether the final state is close to case a or b. For the  $^3\Sigma$ -state this is certainly case b and therefore the K-values are used throughout for the first positive group in agreement with the practice of previous authors. This has the added advantage of making all the odd numbered lines the strong ones for  $N_2^{14}$ .

We depart however from the practice of some previous authors in the designation of the branches by following strictly case b notation. We call therefore a branch P, Q and K branch depending on whether  $\Delta K = -1$ , 0, 1. As the strict selection rule  $\Delta J = 0$ ,  $\pm 1$  applies to J not to K and is not even an approximate rule for K when case a is approached, there are also N, O as well as S, T branches for which  $\Delta K = -3$ , -2 and  $\pm 2$ , and  $\pm 3$  respectively. Two indices are added which designate the spin components of the upper and lower electronic state. With this notation the 27 possible branches of a  $\pm 3$  transition are

When the value of  $\Delta J$  is used to say whether a branch is a P, Q or R branch what we call the  $O_{13}$  branch is called an O type Q branch and written  $O_{13}$ ,  $O_{12}$  would be written  $O_{12}$ . The notation used here is much more natural for the first positive group and moreover avoids such awkward symbols as  $P_{R_{13}}$  branch. When the two indices are equal, one one of them is left out. These branches are the so called main branches,

the only ones persisting for large values of K.

One would be tempted to use the same notation for the sake of consistency also for the second positive group. This would be feasible but contrary to all previous practice and moreover somewhat artificial as for moderate J the <sup>3</sup>H levels are much closer to case a. We chose therefore J to label the rotational levels of the <sup>3</sup>H states. The lowest values of J are then 0, 1, 2 for <sup>3</sup>H<sub>1,2,3</sub> respectively.

# P<sub>1</sub> P<sub>2</sub> P<sub>3</sub>; R<sub>1</sub> R<sub>2</sub> R<sub>3</sub>; Q<sub>2</sub> Q<sub>3</sub>

All are close doublets with one strong and one weak component. When it is necessary to distinguish the two components of a  $\Lambda$ -doublet a prime is added to the line which has the primed component as a final state. For the P and R branches the doubling is the difference of the  $\Lambda$ -doublings of the B and C states, for the Q-branches it is the sum.

There are a number of symmetry properties of the N2 levels which are useful for classification. Levels have even or odd parity depending on whether the total wave function changes sign with an inversion at the origin or remains wichanged. The subscripts u and g indicate the same thing for the electronic wave function alone. A superscript + or - indicates the behavior with respect to reflection at a plane through the internuclear axis. It needs to be added only to  $\Sigma$  levels as for  $\bigwedge \neq 0$  the two components of the \(\Lambda\)-doublet always have opposite plus minus symmetry. The last and perhaps the most useful symmetry property to be considered here is that with respect to interchange of the nuclei. If the wave function apart from the nuclear spin part is symmetric we find the statistical weight of these levels twice that of the antisymmetric states. This gives rise to the well-known intensity alternations in the ratio 2:1. We may speak of strong and weak lines and may use also the expression "strong" and "weak" levels or levels with strong or weak symmetry, as there are no intercombinations between strong and weak levels.

This distraction between strong and weak levels is particularly simple as it is immediately recognizable in the empirical data. This property is related to the other symmetry properties in the following manner.

Strong levels are found for the following K values of Z-states with an indication of the parity of these levels

$\mathbf{\Sigma}_{\mathbf{g}}^{+}$	g even	(eve , parity)
$\Sigma_{\mathbf{u}}^{2}$	K even	(odd ,ity)
Σ-g Σ+	K odd	(odd parity)
$\Sigma_{i}^{\frac{1}{4}}$	K odd	(even parity)

Similar relations also hold for the Illevel components. The most important relation to remember is that alternaterotational levels of a particular electronic state are alternately strong and weak and also have alternately odd and even parity.

# 4. First Positive Group of N<sub>2</sub>: B<sup>3</sup>Π<sub>2</sub> Λ<sup>3</sup>Σ<sub>u</sub><sup>†</sup>

The bands of this group extend from about 5000 Å into the infrared. The first successful rotational analysis was made by Naudé (1932) who dealt with the 5-2 and 6-3 bands. Van der Ziel (1934) gave the analysis of two additional bands (12-7 and 12-8) and more recently Feast (1951) published the analysis of the 1-0 band and Carroll (1952) that of the 1-0, 2-1 and 3-2 bands. The majority of the bands of this large system therefore have never been measured and analyzed. The analysis of the bands of the first positive group is handicapped by the great complexity of the bands and the large number of blends. The existing analyses are all uncertain near the origin where the key lines are too weak with the usual discharge conditions

Naudé showed that the first positive bands are  $^3II \longrightarrow ^3\Sigma$  transitions with 27 branches (see Section 3).

In this report the rotational analysis of 21 bands is presented. A few (1-0, 12-8 and parts of others) are identical with those analyzed previously. This furnishes the possibility for a comparison of our results with those of previous authors. The majority of the bands given here, however had not been analyzed before.

Table 1 presents the vibrational scheme of the first positive group with the wavelength and wavenumbers of the principal heads and the relative intensities (for details see "Explanation of table 1"). The measured

# Explanations to Table 1

This table gives the principal head, that of the  $P_1$  branch of the bands of the first positive group of nitrogen. This head coincides in most cases very nearly with the  $P_1(1)$  line. The latter is given when the head was calculated.

The significance of the data is as follows:

1st line: λ in Å (not given beyond photographic infrared 1...)
 2nd line: ν in cm<sup>-1</sup>. Underlined if the rotational structure of the band has been investigated

3rd line: Intensity of the band (see details below)

Letter indicates previous author of rotational analysis:

C; Carroll (1952)

F; Feast (1951) N; Naude (1932)

Z; van der Ziel (1934)

\*signifies rotational structure given in this report

Intensity data: Numbers without brackets are measured values of Turner and Nicholls (1)54) in a N<sub>2</sub> discharge at 1.25 mm pressure and a current of 0.9 A. Values in parentheses calculated from theoretical transition probabilities of Fraser, Jarmain (1953) and Jarmain, Nicholls (1954), and adjusted so that they are compatible with the measured values.

Table 1 Vibrational Transition in the First Positiv. Group of Na

						<del>,</del>	9-						
12					824.80	2 414.05	3 974.30 (c.7)	\$ 505.36 (0.2)	7 007.78	11 790.09 8 479.37 [7]	10 075.73 9 922.10 [1.2]	8 819.70 11 335.14 [6]	7 860. <b>57</b> 12 71 <b>8.23</b> [9]
11				253.90	1 872.34 (0.0)	3 461.59	5 021.84 (1.3)	6 527.90 [0.2]	8 054.66 [3.1]	10 493.71 9 526.91 [6]	9 113.57 10 969.64 [3.1]	8 073.58 12 382.68 [20]	7 252.40 13 765.77 [0.0]
10				1 473.25	3 091. <b>69</b> (0.9)	4 680.94	6 241.19 [0.2]	7 772.25	10 779.87 9 274.01 [6.1]	9 303.01 10 746.26 [0.0]	8 201.87 12 188.99 [28]	7 349.82 13 602.03 [4.0]	6 671.49 14 985.12 [34]
6			1 003.92 (0.0)	2 ú51.28 (1.0)	4 269.72 (3.3)	5 858.97 [2.2]	7 419.23	11 169.74 8 950.26 [21]	9 64.88 10 452.04 [1.5]	8 383.94 11 924.29 [29]	7 479.04 13 367.02 [18]	6 764.01 14 780.06 [45]	6 185.16 16 163.20 [[5]
80		525.23	2 211.57 (0.3)	3 858.93 (5.2)	\$ 477.37 [7]	7 066.62 [0]	11 538.51 8 626.87 [23]	9 341.83 10 157.93 [18]	8 574.20 11 659.69 [7.9]	7 612.93 13 131.94 [49]	6 859.33 14 574.67 [39]	6 253.06 15 987.74 131	5 755.19 17 370.82 170 2 4
^		1 771.85	3 448.19	\$ 095.55	6 713.99 [4]	8 303.24 [16]	10 010.79 9 862.49 [44]	8 773.72 11 394.55 [4]	7 752.03 12 896.31 [40]	6 957.72 14 368.56 (15)	6 322.65 15 811 29 211	\$ 834.16 17.2.4.26 210	5 372.31 18 607.42 52 Z
9	1 331.83	3 026.99	4 713.33 (1.8)	6 360.69	7 979.13	10 448.23 9 568.3 [80]	8 983.37 11 128.63 [2.6]	7 896.92 12 659.69 166 .	7 059.48 14 161.45 (0)	6 394, 66 15 633, 73 318	5 854.40 17 076.43 210	5 406.98 18 489.47 46	5 030, 66 19 872, 56 (12)
3	2 625.37 (0.1)	4 330.53 (11)	, 006.87	7 654.23	10 781.42 9 272.67 (79)	9 203.95 10 861.92 180	8 047.91 12 422.17 134	7 164.83 13 953.23 161	6 468.62 15 454.99 468	5 906.00 16 927.24 218	5 442.16 13 369.97 41	5 053.44 19 783.01 (8)	4 723.22
4	3 947.06 (1.2)	5 652.22 98	7 328.56 126	11 137.86 8 975.92 102	9 436.40 10 594.36 252	8 205, 50 17 183, 61 (93)	7 273.98 13 743.86 352 •	6 544. 88 15 274. 92 506	5 959.01 16 776.63 193	5 478.24 18 248.93 39	5 076.88 19 691.66 (9)	4 736.96 21 104.70	
ē.	5 296.68 (24)	7 001.84	11 519.99 8 678.18 102	9 682.37 10 325.54 271	8 370.12 11 943.98 95	7 387.19 13 533.23 590	6 623, 57 15 093, 43 548 N	6 013.54 16 624.54 154	5 515, 32 18 126, 30 29	5 101.00 19 598.55 (6)	4 751.24 21 041.28		
2	6 674.05 154	11 931.03 8 379.21 261	9 942.03 10 055.55 214	8 542. 54 11 702. 91 305 C	7 504.70 13 321.32 872	6 704.79 14 910.60 504 N	6 069.66 16 470.85 111	5 5°3.43 18 001.91 17	5 125.82 19 503.67	4 766.04			
1	8 279.28 434	10 217.53 9 784.42 [6.5]	8 723.03 11 460.76 862 C	7 626.76 13 106.12 813	6 788.60 14 726.50 135	6 127.33 16 315.81 73	5 552.53 17 876.06 13	\$ 151.32 19 407.12	4 781.35				
0	10 510.04 9 512.10 1000	8 912.39 11 217.26 1266 FC*	7 753.67 12 893.57 719	6 875.24 14 540.94 142.	6 186.75 16 159.10 (57)	\$ 632.67 17 748.65 (9)	5 177.52 19 308.90 (0)	4 797.14 20 839.96				•	
\$ }	0		2	3	*	5	9	7	6	6	10	n	12

Continued in table la

intensities were obtained at rotational temperatures considerably higher than ours, and therefore there was considerable overlapping of neighboring bands which may have impaired the accuracy of the measurements. The calculated intensities are an indication of the general trend but cannot be relied on to give accurate values for individual bands. Our analysis is based almost exclusively on low temperature low pressure plates. Under these conditions no lines with K > 15 appear and reighboring bands are entirely separated in the infrared part of the spectrum and nearly so in the rest. This simplification of the spectrum reduces the chance of blends. Moreover the lines near the origin important for the interpretation of the structure appear with great intensity. For comparison we have given the 2-0 band also at a moderately high temperature with K extending to about 35.

The actual measurements and analysis are given in table 11. We believe that the way of presenting the data that we have adopted will be more useful to future workers than the commonly used way of giving the lines arranged into branches. The branches can be picked out without difficulty from our table so that we have not deemed it necessary to give a separate table with the bands arranged into branches.

The correctness of the classification can be amply tested by combination relations. These agree to within 0.01 to 0.02 cm<sup>-1</sup> unless blends or otherwise unsuitable lines are involved.

All 27 branches are found well developed for small and moderate K. In most cases plates were measured on which the bands occurred with moderate intensity. In some cases measurements on several exposures were combined in order to obtain strong and weak lines at their optimum density. In general our strongest exposures were so dense everywhere that they were of little use for the elucidation of the structure.

The first positive group appears with great intensity in almost any discharge in pure  $N_2$ . In air or other mixtures containing  $N_2$  and  $O_2$  it is strong at low pressures but greatly weakened at pressures above 10 mm. Near atmospheric pressure it is virtually absent (see Heath, 1959).

# 5. 2nd Positive Group: $C^3\Pi_u \longrightarrow B^3\Pi_g$

The second positive group forms the most conspicuous feature in a  $N_2$  or air discharge between 3000 and 5000 Å. In this wavelength region are found also the first negative bands of  $N_2^+$  and, when oxygen is present, some NO bands. The relative intensity of the  $N_2^+$  and  $N_2$  bands can be varied within wide limits through proper adjustment of the discharge conditions. This is also true for the relative intensity of the first and second positive groups. A discharge in ai. at not too low pressure (e.g. 10 mm) will more or less surpress the first positive group without impairing the intensity of the second group. The reverse is true for the  $N_2$  afterglow in argon in which the second positive group is very weak.

The second positive group of  $N_2$  is one of the most extensively studied band systems. Detailed analyses of the bands of this group were given first by Hulthen and Johansson (1924, 1924a) and by Lindau (1924, 1924a). These papers dealt with the principal bands, established the essential rotational structure and the combination relations but were published at a time when the general theory of the structure of the spectra of diatomic molecules was imperfectly understood. From later analyses by Coster, Brons, v. d. Ziel (1933), Guntsch (1933) and Büttenbender and Herzberg (1935) it was known that the bands were  ${}^3\Pi \longrightarrow {}^3\Pi$  transitions and the theoretical structure of such transitions had been firmly established. Büttenbender and Herzberg in particular studied the breaking off of the rotational sequences through predissociation in the intial state ( $G^3\Pi$ ). It has been recognized for a long time that the lower electronic state of the 2nd positive group  $B^3\Pi$  is identical with the upper state of the first positive group.

<sup>3</sup>II → <sup>3</sup>II transitions have three P and three R branches, the lines of each of which are narrow doublets because of the ∧-doubling. There also should be two Q-branches which should have appreciable intensity however only for low rotational quantum numbers (for details see below). Guntsch actually identified both Q-branches in the 0-0 band and one of the Q-branches in the 0-1 and 0-2 bands. Furthermore there should be weaker branches, never observed, from transitions where the spin changes.

N withstanding the extensive previous work a careful study of the 2nd positive group reveals some new features. We have therefore photographed the second positive group under a variety of discharge conditions and measured enough bands to obtain the rotational and vibrational levels of the initial  $C^{3}\Pi$  state at least for low and moderate J values.

Table 2 gives the vibrational transition scheme of the 2nd positive group with the wavelength of the main (P<sub>3</sub>) edge indicated as well as estimated intensities and information about the rotational analysis of the bands.

In a discharge tube at low pressure (about 0.01 mm) cooled by liquid nitrogen neighboring bands are completely separated as the lines with J > 15 are surpressed. Moreover the lines are very sharp so that the  $\Lambda$ -doubling in the  $R_2$  branches which has not previously been observed is fully resolved in most cases. As in the case of the first positive group the lines near the origin are strong. These were often absent from the previous analyses. The short  $Q_2$  and  $Q_3$  branches to be expected for a  $^3\Pi \longrightarrow {}^3\Pi$  transition and observed before by Guntsch for some bands are very prominent under these conditions in all bands. The  $Q_2$  branch is double, as it should be, with wide  $\Lambda$ -doubling.

If we designate by  $F_1$ ,  $F_2$ ,  $F_3$  and  $f_1$ ,  $f_2$ ,  $f_3$  respectively the triplet components of the  $C^3\Pi$  and the  $B^3\Pi$  states and add a prime, where necessary, to distinguish the two components of the  $\Lambda$ -doublets we obtain for

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	۴-	5452.0		4916.8	• (ô)	4490.2	<u>e</u>	4141.8	(2)	3857.9	ŝ,
	•	5031.5		4574.3	3	4200.5	9	3894.6	ε	3641.7	3g (c)
	5	4667.3	<u>©</u>	4269.7	(2)	3943.0	기 (8)	3671.9	8g (9)	3446	<u>e</u>
	+		3 (%)	L		L	(8) LgB.	١	_	3268.1	
	3	4059.4	(8) Lag	3755.5	(10) HLE.	3500.5	* O (*)	3285.3	(3) C	3104.0	(3)
	2	3304.9	(10) HL38	3536.7	(8) HL28	3309	(2)	3116.7	(9)	2953.2	(e) CB
-	~		(10) HLE	t .			(8)	2962.0	न्न (9)	2814.3	(1) B
	٠	3371.4	(10)HCG	3159.	o (6)	2976.8	(e) B	2819.8	(ı) B	2687	
	- 5		0	_	_		7		,		•

Wave tength of principal (Ps) head. Wiere the wave length is underlined, the rotations, structure has been investigated. let line

Estimated intensity of band
Rotations is structure given by Huithen and Johannsen (1924)
Lindau (1924) L. Lindau (1924 a)
Coster. Brons, v.d. Ziel (1933)
Guntech (1933); qthe same but the analysis not published
Buttenbender zid Hersberg (1935) Skyoon. 2nd line

the 16 main branches of a  $^3\Pi \longrightarrow ^3\Pi$  transition

$$P_{i}(J) = F_{i}(J-1) - f_{i}(J)$$

$$P_{i}^{t}(J) = F_{i}^{t}(J-1) - f_{i}^{t}(J)$$

$$R_{i}(J) = F_{i}(J+1) - f_{i}(J)$$

$$R_{i}^{t}(J) = F_{i}^{t}(J+1) - f_{i}^{t}(J)$$

$$Q_{i}(J) = F_{i}^{t}(J) - f_{i}(J)$$

$$Q_{i}^{t}(J) = F_{i}(J) - f_{i}^{t}(J)$$

$$i = 1, 2, 3$$

There should, however, be additional branches when the spin changes its orientation or, in case b language, if J and K do not change by the same amount. These satellite branches must satisfy the selection rule  $\Delta J = 0$ ,  $\frac{1}{2}$ 1 but not necessarily that for K.

We have, as examples, the following possibilities

$$Q_{12} = F'_1(J) - f_2(J)$$
  
 $P_{23} = F_2(J-1) - f_3(J)$  etc.

These satellite branches cannot occur when we have either exact case a or exact case b. They must be expected to have considerably less intensity than the main branches.

There is no record that these branches have ever been observed in the past. Their lines can be exactly calculated once the energy levels have been established. Many of the satellite branches lie an eng the strong lines and it is not easy to find the weak lines in the vicinity of the much stronger ones.

The  $Q_{12}$ ,  $Q_{23}$ ,  $P_{12}$  and  $P_{23}$  branches on the other hand lie to the red of the main heads where under the low temperature conditions no lines of the main branches are found. Table 10 shows there satellit branches quite completely for the 0-0 and less so for the weaker 0-3 band. They are present also for the other bands on strongly overexposed but not measured plates.

The intensity of the satellite ranches is of the same order of magnitude as that of the Rowland ghosts c the main branches about 1/100 in the second order for our grating so 1. \*\* great care must be taken not to confuse the satellites with the ghosts. The main branches of the N14-N15 bands should be also roughly of the same intensity (1/274 of N14-N14) and so that care must be taken to eliminate them also.

There seems no question however that we have here the genuine satellite branches. Some lines of those falling inside the main branches have also been identified but only sporadically as the strong lines provide too much interference.

When the gas pressure or the discharge current is raised the rotational temperature is increased and at the same time transitions from the higher vibrational levels weakened. At a out 55 mm pressure rotational levels to about J=85 can be observed early for v'=0, while for the other vibrational states the maximum J value is determined by predissociation. At these conditions all lines are noticeably less sharp. We have measured some bands at an intermediate condition (pressure about 1.0 mm) in order to obtain the rotational levels to about J=40. It is well-known that for v'>4 all rotational levels are predissociated and that therefore no bands with v'>4 are found.

# 6. Determination of the Energy Levels

From the empirical frequencies of a band system it is in general possible through repeated applications of the combination principle to obtain the energy values of all levels involved, without recourse to any theoretical formula for the spacing of the levels, although there are one or two reservations.

If one level F(v, J) is known we find empirically the differences

$$F(v, J = 2) - F(v, J)$$

and thus obtain successively all the levels differing by an even J from the original level. Similarly we obtain

$$F(v',J) - F(v,J)$$

directly from the measurements and obtain thus the levels for all the other values of the vibrational quantum number v.

We see that in this way we can refer the energy levels to a reference level which can be chosen arbritarily and we can obtain all levels which combine directly or in several steps with this level.

In the tables 5-7 we have given the J=0, v=0 level of the  $F_2$  component of  $A^3\Sigma$  the energy zero. It is immaterial that because the  $F_2$  component begins with J=1 this is not an actual level. The lowest existing level of  $A^3\Sigma$  is J=0 of  $F_1$  which is 0.72 cm<sup>-1</sup> higher than the reference level.

Not all the levels of the A, B and C states can be obtained directly from the combination relations.

The procedure, outlined so far, cannot give the relative position of "weak" and "strong" levels (see p. 7). The connection between the weak and strong levels can be found with the help of a formula representing the rotational energy as function of the quantum number K (or J). It is advantageous to use for this a state where such a formula has the simplest possible structure. The  $F_2$  component of  $A^3\Sigma$  is such a state as its levels are not affected by spin interactions. After finding the relative position of one strong and one weak level all the other levels can be found within

the limits of experimental errors by combination relations, independently of any theoretical formula. The repeated application of the combination principle may however introduce cumulative accidental errors. While these do not affect the relative position of neighboring levels and therefore in general do not impair the accuracy with which the frequency of band lines can be calculated from the levels it makes the position of the higher levels above the ground state (or any other reference state) somewhat more uncertain. In order to minimize such uncertainties the following procedure was adopted.

6.1 Calculation of the  $A^3\Sigma$  levels. The  $F_2$  component of this level is independent of any spin interaction and therefore given by the simple formula.

$$F_2(K) = BK(K+1) - DK^2(K+1)^2 + \dots$$
 (1)

where  $B = B_y$  and  $D = D_y$  have the usual meaning.

The differences

$$\Delta F_2(K) = F_2(K+1) - F_2(K-1) = 2B(2K+1) - D[(K+1)^2(K+2)^2 - (K-1)^2K^2]$$

can be obtained directly from the measurements

$$\Delta F_2(K) = R_2(K-1) - P_2(K+1) = Q_{12}(K-1) - Q_{12}(K+1) = S_{32}(K-1) - Q_{32}(K+1)$$
 (2)

The average of the three values obtained from one band or, if several bands with the same final vibrational state are used, the average of several bands are used for the calculations. In this and all other similar calculations, values from blends which would affect the accuracy have been excluded. Reliable values of the first 11 of these differences could be obtained for all values of v up to 9 (table 3).

Table 3.  $F_2(K+1 - F_2(K-1))$  of  $A^3\Sigma$ 

K		ì	2	3	4	5	6	7	8	9
2 3 4 5 6 7 8 9 10 11 12 13	14.46 20.23 26.02 31.79 37.58 43.35 49.12 54.91 60.65 66.41 72.22 77.96 83.71	14.24 19.99 25.69 31.39 37.07 42.79 48.49 54.21 59.91 65.57 71.27	14.04 19.72 25.36 30.99 36.63 42.25 47.87 53.49 59.13 64.75 70.36 75.98	13.92 19.47 25.04 30.60 36.16 41.72 47.24 52.80 58.37 63.90 69.44	13.71 19.20 24.68 30.19 35.67 41.14 46.61 52.09 57.56 63.06 68.52 73.95 34.83	13.52 18.96 24.33 29.76 35.16 40.55 25.96 51.35 56.76 62.20 67.58 72.94 78.38	13.35 18.68 24.00 29.34 34.67 40.02 45.33 50.65 55.95 61.23 66.65 72.04 77.16	13.17 18.44 23.65 28.94 34.18 39.44 44.69 49.93 55.18 60.41 65.65 70.92 76.13	12.95 18.12 23.33 28.50 33.67 38.83 44.03 49.17 54.35 59.53 64.67 69.83 74.97	12.76 17.86 22.95 28.06 33.16 38.24 43.34 48.44 53.52 58.60 63.69

The fact that we are restricted to low K-values is not very favorable for obtaining an accurate value of  $D_{\mathbf{v}}$ . We have therefore used for all  $\mathbf{v}$  the value  $D=5.84.10^{-6}$  obtained by Carroll. This entails a small systematic error as  $D_{\mathbf{v}}$  changes with  $\mathbf{v}$ . The error in the energy levels because of this will be very small however probody smaller than the experimental errors. An error of 10% in D will produce only an error of .007% in  $B_{\mathbf{v}}$  (about one part in 15 000). With this value for D the least square value for  $B_{\mathbf{v}}$  is found from the first 11 differences  $\Delta_2(K)$ .

The values of the rotational energies from K=1 to K=13 are then calculated from (1) for each value of v. They are the smoothed out values consistent with the empirical  $F_2(K+1) - F_2(K-1)$  differences. This set of rotational energies forms the foundation for all further calculations.

The  $F_1$  and  $F_3$  values of  $A^3\Sigma$  are obtained from the triplet separations which can be obtained directly from the measurements.

$$F_{1}(K) - F_{2}(K) = P_{12}(K) - P_{1}(K) = Q_{12}(K) - Q_{1}(K)$$

$$= Q_{2}(K) - Q_{21}(K) = R_{2}(K) - R_{21}(K)$$

$$= R_{32}(K) - R_{31}(K) = S_{32}(K) - S_{31}(K)$$

$$F_{3}(K) - F_{2}(K) = O_{12}(K) - O_{13}(K) = P_{12}(K) - P_{13}(K)$$

$$= P_{2}(K) - P_{23}(K) = Q_{2}(K) - Q_{23}(K)$$

$$= Q_{32}(K) - Q_{3}(K) = R_{32}(K) - R_{3}(K)$$

These triplet separations which vary only slightly with v are listed in table 4.

Knowing the  $A^3\Sigma$  levels, the values of all  $B^3\Pi$  levels can be obtained from the frequencies of the individual band lines. From each band every  $B^3\Pi$  level (there are 6 for each J) is obtained 4 or 5 times and the average taken. This gives a good opportunity for checking the correctness of the classification. Again here obvious blends are excluded from the average.

6.2 The energies of the  $B^3H$  and  $C^3H$  levels. Up to this point all levels are relative to the  $F_2(0)$  level of the final  $A^3\Sigma$  state of the particular band. We want to refer all energies to one common reference level  $F_2(0)$  of  $A^3\Sigma$  (v=0).

The energies of the  $B^3\Pi$  levels which are obtained from the 1-0  $2_70$   $3_70$  bands are directly referred to the proper zero level. For the others we must use the vibrational differences of the  $A^3\Sigma$  state which can be directly obtained from the measurements.

The simplest procedure to do this is to use the combination principle repeatedly in going from levels with known energy to levels with as yet

-17-

RV	0	1	2	3	4	5	6	7	8
				F <sub>1</sub>	- F <sub>2</sub>				
1 2 3 4 5	.95 1.04 1.11 1.13 1.17	.92 1.03 1.10 1.12 1.15	.92 1.02 1.09 1.13 1.16	.93. 1.02 1.08 1.12 1.14	.91 1.01 1.08 1.11 1.13	.91 1.01 1.07 1.11 1.12	.92 1.01 1.06 1.08 1.12	0.89 1.00 1.05 1.11 1.13	0.91 0.99 1.05 1.09 1.11
6 7 8 9 10	1.18 1.19 1.20 1.21 1.21	1.17 1.19 1.20 1.20 1.21	1.17 1.18 1.20 1.20 1.20	1.16 1.18 1.19 1.20 1.20	1.15 1.17 1.18 1.18 1.18	1.14 1.16 1.17 1.18 1.19	1.14 1.15 1.16 1.17 1.18	1.14 1.15 1.15 1.15 1.15	1.13 1.13 1.14 1.15 1.16
11 12 13 14 15	1.22 1.22 1.22 1.22 1.23	1.21 1.23	1.20 1.22 1.20 1.24	1.20 1.20 1.20 1.28	1.20 1.20 1.20 1.20	1.19 1.21 1.20	1.18 1.18 1.18	1.16 1.16 1.18 1.19	1.18 1.16 1.16
16 17 18 19	1.22 1.22 1.22 1.22								
				F3	- F <sub>2</sub>				
1 2 3 4 5	2.66 1.95 1.72 1.62 1.56	2.67 1.89 1.72 1.59 1.54	2.64 1.90 1.72 1.59 1.53	2.60 1.89 1.68 1.59 1.54	2.60 1.90 1.67 1.57 1.52	2.55 1.90 1.68 1.56 1.51	2.55 1.87 1.66 1.57 1.50	2.52 1.89 1.65 1.54 1.49	2.54 1.85 1.63 1.53 1.49
6 7 8 9	1.52 1.50 1.48 1.47 1.46	1.51 1.49 1.48 1.46 1.45	1.50 1.48 1.46 1.46 1.4	1.50 1.48 1.45 1.45 1.43	1.40 1.46 1.44 1.44	1.48 1.45 1.45 1.42 1.43	1.48 1.45 1.44 1.12	1.48 1.45 1.43 1.41 1.40	1.46 1.43 1.44 1.41 1.40
11 12 13 14 15	1.45 1.43 1.43 1.43 1.42	1.44 1.44 1.44	1.44 1.44 1.43 1.42	1.42 1.43 1.41	1.42 1.40 1.41	1.42 1.40 1.40	1.41 1.41 1.41	1.39 1.39 1.37 1.37	1.39 1.38 1.38 1.38
16 17 18 19 20	1.42 1.40 1.43 1.42 1.42								

,

3

unknown energies. Fig. 3 shows how the various vibrational levels of the three electronic states are connected by measured bands.

For instance the v=4 levels of  $A^3\Sigma$  are obtained as follows. From first p.g. band 3-0 obtain v=3 of B then v=1 of C from 1-3, 2nd p.g. then v=7 of B from 1-7 band 2nd p.g. and finally v=4 of A from 7-4 band 1st p.g. The previously calculated rotational energies of A, v=4, are subtracted from the rotational energies thus obtained and this gives the vibrational energy of A<sub>4</sub> above the v=0 level. The fact that the values for this difference obtained from the various rotational levels agree to within a few times 0.01 cm<sup>-1</sup> shows the soundness of the method and testifies to the accuracy of the measurements.

A further check is to calculate the same level using different paths e.g. B<sub>7</sub> via C<sub>1</sub> or C<sub>2</sub>. In all cases where we have done this we found excellent agreement.

The five vibrational levels of the  $C^3\Pi$  state are found in the same way with the help of bands of the second positive group. The  $\Lambda$ -doubling of the  $F_3$  levels could not be obtained. The unresolved doublets yield one value for  $F_3$  which is closest to the strong component and entered in table 7 as such.

All  $B^3R$  levels have been obtained from bands of the first positive group because many of these levels as lower states of the 2nd positive group are involved with unresolved doublets which lowers the accuracy. An exception is the v=0 level of B which was found from the 0-0 2nd p.g. band as all first p.g. bands involving this level lie in an inconvenient region.

The repeated use of the combination principle increases, of course, the chance for piling up errors of measurements. This is minimized by our calculating the vibrational levels  $F_2(0)$  of the  $A^3\Sigma$  state from many differences and taking the average. The standard deviation of this average is of the order of magnitude 0.001 cm<sup>-1</sup> in many cases\*. The smoothed out calculated rotational energies are then added in each case to the vibrational levels so that the effect of accidental errors is reduced to a minimum.

Tables 5-7 give the energy levels thus calculated for all A states to v = 9, B states to v = 12 and C states to v = 4. They are as free from systematic errors as can be obtained with our present set of measurements and the accidental errors in general should not exceed a few times 0.01 cm<sup>-1</sup>.

<sup>\*</sup>This does not mean that the energy levels are known with this accuracy as systematic errors in the measurement are not taken care of by this (or any other) procedure.

Table 5 page 19 Rotational and Vibrational Structure of the  $A^3\Sigma$  state

	F <sub>2</sub>	F,	F <sub>3</sub>	F <sub>2</sub>	F <sub>1</sub>	F <sub>3</sub>	F <sub>2</sub>	F <sub>1</sub>	F <sub>3</sub>
K		v = 0			v = 1		Ì	v = 2	·
0 1 2 3 4	0* 2.89 8.67 17.35 28.91	3.84 9.71 18.46 30.04	5.55 10.64 19.07 30.51	1432.91* 435.76 441.47 450.03 461.45	33.63 36.68 42.49 51.13 62.57	38.43 43.36 51.75 63.05	2838.15* 840.97 846.60 855.05 866.33	38.87 41.89 47.62 56.14 67.45	43.61 48.49 56.77 67.92
5 6 7 8 9	43.37 60.71 80.94 104.06 130.07	44.54 61.89 82.13 05.26 31.28	44.93 62.23 82.43 05.54 31.53	4 <u>75, 72</u> 492. 84 512. 81 535. 63 561. 31	76.87 94.01 13.99 36.82 62.51	77.27 94.35 14.30 37.11 62.77	880.41 897.31 917.63 939.56 964.90	81,57 98,48 18,21 40,75 66,09	81.94 98.81 18.51 41.02 66.36
10 11 12 13 14	158.96 190.73 225.39 262.92 303.34	60 16 91.95 26.62 64.15 04.57	60,42 92.17 26.81 64.39 04.77	589.82 621.19 655.40 692.48 732.35	91.03 22.40 56.62 93.68 33.60	91.27 22.64 56.84 93.90 33.82	993.05 3024.02 057 79 094.37	94.25 25.21 59.01 95.39	94.49 25.46 59.23 95.80
15 16 17 18 19	346.63 392.82 441.85 493.79 548.55	47.88 94.05 43.10 95.01 49.82	48.10 94.22 43.31 95.17 49.99			-			
20 21	606.22 666.71	07.44 67.98	07.60 68.16						
		<b>v</b> = 3			v = 4			v = 5	
0 1 2 3 4	4215.57* 218.35 223.91 232.26 -243.38	16.29 19.26 24.92 33.34 44.49	20.95 25.81 33.93 44.96	5565.23* 567.97 573.46 581.69 592.67	65.95 63.88 74.47 82.77 93.78	70.57 75.36 83.36 94.25	6866.95* <u>889.66</u> 895.07 <u>903.18</u> 914.01	87.67 90.57 96.08 04.25 15.12	92.21 96.97 04.86 15.57
5 6 7 8 9	257.29 273.97 293.43 315.67 340.69	58, 42 75,12 94,60 16,85 41,87	58.81 75.45 94.89 17.11 42.13	606.39 622.84 642.05 663.99 688.66	07.52 23.99 43.22 65.17 89.84	07.91 24.32 43.51 65.43 90.10	927,53 943.76 962.69 984.33 7008.66	28,65 44.90 63.85 85.50 09.84	29.04 45.24 64.14 85.78 10.08
10 11 12 13	368.48 399.04 432.38 468.49	69.67 00.24 33.58 69.69	69.70 00.46 33.79 69.90	716.08 746.23 779.12 814.74	17.27 47.43 80.32 15.94	17.50 47.65 80.53 16.15	035.69 065.43 097.85 132.98	36.88 66.62 99.06 34.18	37.10 66.85 99.25 34.38

\*Calculated, not an actual level
Add 49 755.90 to obtain the position above the ground level
X<sup>1</sup> \( \Sigma\) of the molecule

.

Table 5 (ctd.)

					Lebe	e o (cta.	· <i>J</i>			
		F <sub>2</sub>	F <sub>1</sub>	F3	Fz	$F_1$	F <sub>3</sub>	F <sub>2</sub>	F <sub>1</sub>	F <sub>3</sub>
] ]	K		v = 6			v = 7			v = 8	
1.	0	8180.52*	81.23		9445.731	46.44		10 682.37	.#3 07	
	ĭ	183.19	84.11	85.74		40.25	50.88	684.95	85.87	87.50
	2	188.52	39.53	90.39	453.62	54.62	55.51	690,14	91.13	91.99
	3	196.53	97.59	98.19		62.56				
	4	207.19	08.27	08.76	472.03	73.14	63,16 73,57	708.28	98.96 09.37	99.54 09.81
	*	201.17	00.21	00210	712.03	13.14	15.51	100.20	07.51	07.01
	5	220.53	21.65	22.03	485.18	85.31	86.67	721.23	22.34	22.72
1	6	236.53	37.67	38.01	500.96	02.10	02.44	736.77	37.90	38.23
	7	255.20	56.35	56.65	519.36	20.51	20.81	754.89	56.02	56.32
	8	276.52	77.68	77.96	540.39	41.54	41.82	775.61	76.75	77.05
	9	300.52	01.69	01.94	564.05	65.20	65.46	798.91	00.06	00.32
1										0000
1	0	327.17	28.35	2º 59	590.33	91.48	91.73	824.79	25.95	26,19
1:		356.48	57.66	51.89	619.23	20.39	20.62	853.26	54,44	54.65
12		388.45	89.63	89.86	650.76	51.93	52.15	884.31	85.47	85.69
1.	3	423.08	24.26	24.49	684.90	86.06	86.27	917.94	19.10	19.32
	ιl	11 890.06* 892.61 897.71 905.37 915.57  928.32 943.63 961.48 981.87 004.82  12 030.31 058.34 088.91	v = 9 90.76 93.53 98.70 06.42 16.66 29.43 44.76 62.61 83.01 05.97 31.47 59.52 90.07	25.16 99.56 07.00 17.10 29.81 45.09 62.91 83.31 06.23 31.71 59.73 90.29				s, the level a give rise t		
13		122.03	23.19	23.41						
	1	2								

Table 6
Rocational and Vibrational Structure of the B<sup>3</sup>H state

								_			_		 _			_	_					_								
F3		•	1	5.1	5.5	329.66		47.1	67.9	92.2	19.8	450.92	85.	22.	563.82	• !								638,88		660 57	689.91	713,60	740.58	770,86
- £4		1	•	5.1	5.6	329.67		•-	6	~~	œ	450.84	'n	ζ,	563, 74	,						\$	28.6	38.	2,5		•		740,53	
F.3	1	1	63	٥	78			o	~		9	403,48	 Ŋ	7	509.23	1				ю ·		77 78 H	592.87	602.19	614.61	~	3 0	٠,	695.74	9
F2	>	1	263.04	269,36	278.83	291,53		307.41	326,49	348,78	374,30	403,03	5.0	0.2	508.54	•				) >		586 64	592, 83	602.08	614,50	ď	8	0.4	695,39	3,4
편1		8.1	221,10	7.0	5,9	7,8		62.	80.	01.	25.	252.93	83.	16.	252.81								550, 63			ıç.	· ~	8	647.27	ຕ້
F1,		5	œ	41	3	245,73		60.	78.	99.	323,89	51.	1.3	4.6	451,18						14 530 60	12.	548,37	557.	548.87	•			645,35	•
F3		ı	•	600.16	<u>.</u>	[ <del>-</del> *	•	٠. د	3.7	8.2	716.25	7.7	782.36	820.49		89.906		006.11			,			991,75	-	922, 79	043.40	067.39	094,70	125.33
F31			1	600.16	610.78	624.95	•	0	~	4	716.22	9	782.31	820.42	861.88		954,70				-	1	സ	991.73	r.	7	4	3	094.67	ຕ !
F21	0	ı	557, 52	564.45	7.	37.	;	03.0	22.4	44.9	670.85	99.6	632,38	768.04		849.12		943.31		~	•	939.30	945.58	955,02	967,60	സ	N	3	049.67	-
F2	# >	1	57.5	4.3	73.9	œΙ		ν. α	7.	4.8	670.44	9.5	 8	7.4	806.31	8.4	3.7			<b>&gt;</b>		39.3	945,54	54.9	67.4	83, 1	0.70	24.0	049,31	77.7
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$\mathbb{F}_1^1$		9	513.69	9	,	540,85	ì	0. 20.	74.2	95.5	619.88	47.3	6:2	1.6	748,55	8.6	1.7	8,1			12 892.16	1	901,04	909.90	921,76	36.5	54.4	75.2		6.62
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	표31		159.22	36.8	80.6	27.5	77.	33.	87.	547.00	•	676.93	,				1 1	46.	257.02	9	87.2	07.3	330.80	57.4	87.3	0.4	56.7	96.2	538.99	84.8
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F		510.95 558.24 608.52 661.89 718.30	777.70 840.19 905.70 974.28 045.85		309.88 312. 1 318.37 326.40 338.10	352.22 369.20 389.03 411.76 437.38	465.89 497.33 531.69 568.99
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	F2	= 10	456.27 487.80 522.24 559.52		= 12	097,73		122.68	136.59	172.73	220.07	٠. د	312.08	ထ်	
	F <sub>2</sub>	>	455.84 487.34 521.72 558.97	99.	<b>&gt;</b>	97.	103,22	22.	136.45	22.	. 6	47.		347.78 386.76	
	Fı		406.31 436.21 468.90 504.34			0	061.92	^1	093.34 109.06	27.4	72.1	98.6	59.5	331.20	371.17
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Table 7

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	F.3.		1	3	274,89		310.42	,	361.29		427.10		507,78		603.00		713,15			•	•		1	087,30	
	£2,	1	223 47	230, 53	241.10	355,26	273.03	294.35	319.28	348.00	379.87	415.58	454.86	497.75	544.23	594,43	648.00	705.28		M		038.08	044.90	055, 21	0000
- 1	5.4	# >	223 47	230.47	241,04	255.08	272,77	294.00	318,85	347.40	379,32	414.98	454.22	497,07	543.46	593,55	647,04	704.25		H <b>≯</b>	•	038,03	044,82	055.08	21 1000
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The Distriction of the Districti	1.7		41 180,29	190.18	199,97	213,10	229.53	249,31	272.46	299.01	328,97	362,40	399.24	439,57	483,37	530,69	581,51	635.78			44 997.13	45 000 27	006.60	016, II	7
ational of	£3		1 ,1	269,24		297,30		341.07		400.13		474.32		563,42		667,30	!	785.85			•	•	202.91	230.20	77777
E 1	£3		1 1	,	281,28		317.23		368.66		435.27		516.93		613.47		724.65				•	•	77.7	214.00	
T. 1	£2	<b>5</b>	229.17	236,27	247,03	7.56.37	279.31	300.89	326.10	354.93	387.41	423.55	463.32	506.73	553.79	604.42	658, 71.	716.66		4	1	164,14	171.14	195,54	
1	2.2	u >		236.27	ግ	~	279.03	300.52	325.08	354.45	386.86	422.94	462.65	0	553.00	603,57	657.84	715.79	ii >		•	164.14	171.08	195.41	
12	1.7		187.62	197.45	207.35	220.55	237.11	257.06	280.43	307.21	337.40	371:19	408,44	449.18	493.47	541.28	592.64	.5			124.17	127,24	133,65	156.20	
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Table 7  Ta		1.6		H	H	H	76 700 7	106.87	131.01	158.72	139.84	224.50	262.63	প্ৰ		F3.	ŀ	4	000.68	037.88	078.45	169.89										
Table 7  Ta		E.	•				•	<b>A</b>	٨	>	>	880	106.51	130,64	158,24	189,32	253,92	261,96	1303,05		Ę	ł		953,54	988,42							
Table 7  Ta		F,							1 046 60 1	065.69	088.02	1113.66	144.05	98		- E4		952.21							•							
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J $F_1'$ $F_1$ $F_2$ $F_2'$ 5       43 170.40       172.31       212.81       213.09         6       189.92       191.76       233.77       234.11         7       212.76       214.50       258.26       258.68         9       268.56       270.02       317.96       318.45         1       301.42       302.94       353.03       353.68         1       337.77       339.20       392.79       318.45         2       377.55       378.92       392.79       353.68         1       337.77       339.20       392.79       353.68         1       783.30       788.23       819.16       819.16         1       783.30       885.84       825.86       86         2       845.30       846.95       886.46       996.40         3       846.95       886.16       909.95       909.95         3       846.95       886.48       966.40       966.41         4       920.64       926.92       966.92       967.41	Table	F3					; ;	550,365		402,98				£3			<b>3</b> (	855 06		•	====	92. KB		978.07								
J     F1'     F1     F2       5     43 170.40     172.31     212.81       189.92     191.76     233.77       212.76     214.50     258.26       238.91     240.62     286.30       268.56     270.02     317.96       301.42     302.94     353.03       377.55     378.92     392.79       277.55     378.92     392.79       278.33     785.28     819.16       282.48     828.35     865.88       845.30     846.95     886.16       845.30     846.95     886.16       882.30     893.75     936.92       920.64     922.05     966.92		자.			249.72		24.46	364.91		444 56	27.20		F	£3.	٠	•	1 1		_	•	900.21		948.53		011.05							
J     F1 f     F1       5     43 170.40     172.31     23       6     189.92     191.76     23       7     212.76     214.50     23       9     268.56     270.02     31       1     337.77     339.20     33       2     377.55     378.92     33       2     377.55     378.92     33       3     377.55     378.23     33       4     783.30     785.28     88       8     826.35     84     88       8     845.30     846.95     88       8     845.30     846.95     88       8     820.64     828.35     86       8     845.30     846.95     88       8     820.64     828.75     96       9     892.30     893.75     96       9     892.05     96		F2'	1				234.11	286.81	318,45		353.68			L	2.5			819.16	825.86	835.90	849.32	866.40	886.48	909.95	936.97	967.41						
J     F1'     F1       5     43 170.40     172.31       6     189.92     191.76       7     212.76     214.50       9     258.91     240.62       9     268.56     270.02       1     337.77     339.20       1     337.77     339.20       2     377.55     378.92       1     377.55     378.23       1     783.30     785.23       7     789.47     791.40       7     789.47     791.40       7     828.28     35       8     845.30     846.95       8     828.35     846.95       8     828.35     846.95       8     828.35     846.95       8     828.35     846.95       8     822.30     893.75       9     920.64     922.05		F2	>		2.8	ν. 	9 6	7.9					Ę	7 - 6	>	1	819.16	825.84	835.80	849.13	865.88	886.16	909.55	936.49	26.996							
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		F			172.	234	240	270.	303	339.	378.		(E4			1782.23	785.28	791.40	800.58	812.96	3	9	-	•	o 1							
		Fi		;	170.	212.76	238.91	268,56	301 42	337.77	377.55		Er.			780.	783.30	789.47	798. 71	811.20	4.4	ι. ω	2.5	3	١							
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For low K-values, the levels have been underlined which give risk to strong lines

(These errors might be slightly larger for the C levels because of frequent occurrence of unresolved A-doublets in the second positive group.)

The levels thus obtained reach to about J=13 and these are the ones of importance in upper air phenomena. To obtain the levels for higher J the same procedure in general cannot be used because of the fading out of the satellite branches and also expression (1) for the rotational energy will not remain a sufficiently good approximation with the adopted values of  $B_v$  and  $D_v$ . Wherever higher values are given they were obtained through direct application of the combination principle usually with rotational differences from the main branches only. As the cumulative errors for the three triplet components are independent of each other, one cannot expect to find the triplet separations for high J with the accuracy of the wave number measurements. This is also true for the  $\Lambda$ -doubling of the C levels as they must be obtained from the 2nd positive group which has no Q branches for large J.

For the B levels the situation is more favorable. We have

$$\Delta_{1}(J) = R_{1}(J) - Q_{1}(J) = F_{1}(J+1) - F_{1}(J)$$

$$\Delta_{1}(J) = Q_{1}(J+1) - P_{1}(J+1) = F_{1}(J+1) - F_{1}(J)$$

$$\Delta_{1} - \Delta_{1} = F_{1}(J+1) - F_{1}(J+1) + [F_{1}(J) - F_{1}(J)]$$
(3)

in other words we obtain the sum of the  $\Lambda$ -doublings of two successive levels. Similar expressions hold for the  $F_2$  and  $F_3$  components.

If the  $\Lambda$ -doubling is a slowly varying function of J, as it actually is, the variation can be considered linear for neighboring J and we obtain

$$\Delta_1(J) - \Delta_1(J') = 2[F_1(J+\frac{1}{2}) - F_1(J+\frac{1}{2})]$$
 (4)

This makes it possible to determine the  $\Lambda$ -doubling for the B states as function of J with any desired accuracy (see Fig. 4).

The energy levels of tables 5-7 make it possible to calculate to within a few times 0.01 cm<sup>-1</sup> the lines of all the other bands in the two systems, the rotational structure of which is not given in this report.

The possibility of doing this makes it possible to disentangle two bands which virtually fall on top of each other as e.g. the 4-0 and 12-9 bands of the first positive group. This fact has made it unnecessary for us to analyze the remaining bands of the two systems as this would not furnish any new information.

6.3 Determination of the absolute energies. All energies in tables 5-7 are given with respect to the  $F_2(0)$  level of  $A^3\Sigma(v=0)$  which has been taken arbitrarily as zero. For many purposes it would be advantageous to know the absolute values of the energy, i.e. the energy above the ground state of the molecule  $X^1\Sigma(v=0, J=0)$ .

Any band which connects the known triplet bands with the ground state will be suitable for this. The only known bands achieving this are

the Vegard-Kaplan bands  $A^3\Sigma \longrightarrow X^1\Sigma$ . Measurements of the rotational structure of the 6-0 and 7-0 bands of this system in absorption have been given by Wilkinson (1959). The procedure is as follows.

- 1. Obtain the rotational energy levels of the ground state  $X^{1}\Sigma$  (v=0) from the best values of the rotational constants which are those obtained from Raman measurements of Stoicheff (1954).
- 2. With the known rotational levels of the ground state calculate from the observed lines of the 6-0 and 7-0 Vegard-Kaplan bands the rotational levels of the A<sub>6</sub> and A<sub>7</sub> states. The accuracy of these values is not as good as that obtained from the visible bands as the accuracy of the individual measurements is less and the R- and P- branches are superimposed on each other in both bands.
- 3. Compare the rotational levels thus obtained with the values in table 5. The average difference is 49 755.90 cm<sup>-1</sup> with a possible error of one cm<sup>-1</sup>. This amount should be added to the values in tables 5-7 in order to convert them into absolute energies.

Table 8 gives the absolute energy levels of the lowest rotational level of each vibrational state, together with data about dissociation and ionization taken from Mulliken (1957).

Table 8 Lowest Rotational Level of Each State Above  $X^1\Sigma$ 

	Dowest Rotatio	mai lievel of Ea	ch State Above A-2
v	A³Σ	B³n	C <sub>3</sub> II
0	49 756.62	59 266.22	88 941.24
1 1	51 189.53	60 971.72	90 936.19
2 3	52 594.77	62 648.06	92.877 <b>.77</b>
3	53 972.19	64 295.50	94 <b>7</b> 53 <b>.03</b>
4	55 321.85	65 913.94	96 536.12
5	56 643.57	67 503.25	Dissociation
6	57 937.13	69 063.53	
7	59 202.34	70 594.63	4s + 4s 78 692
8	60 438.97	72 096.42	$^{4}S + ^{2}D$ 97 915
9	61 646.66	73 568.75	$^{2}D + ^{2}D$ 117 138
10	62 824.13	75 011.51	Ionization 125 672
11	63 973.12	76 424.59	I + exc. of ${}^{2}\Sigma_{u}^{+}$ 151 338
12	65 091.70	77 807.74	-
13	66 257.85	79 161.01*	
14		80 485.08	·
15		81 776.63	
16		83 037.05	
17		84 266.28	

\*interpolated

## Molecular Constants

The rotational and vibrational constant of the three electronic levels have been determined previously (Carroll, 1952; Budo, 1935; Hebb, 1936; Guntsch, 1934; Coster, etc. 1933). Because we have more complete and in some cases more accurate data a redetermination may be useful.

7.1  $A^3\Sigma$ . The determination of the B values with the help of the  $F_2$  levels has been treated in section 6. The so determined B values are listed in the appropriate column of table 9.

According to Kramers (1929) the triplet separation of a  $^3\Sigma$  level is (see also Hebb, 1936)

$$\Delta_{12} = 6e \frac{K+1}{2K+3} - c(K+1)$$
 (3a)

$$\Delta_{32} = 6e \frac{K}{2K-1} \div cK \tag{3b}$$

with e and c two constants. From this it follows that

$$\Delta_{12}(K) + \Delta_{32}(K+1) = \frac{(K+1)^{2}}{(K+1)^{2} - \frac{1}{4}} - 6e$$
 (4)

which can be used for calculating the constant e. The values found from the first six pairs of separations are entered in table 9. They decrease slightly with v. (4) represent the differences within the limits of experimental errors which means that the part depending on e in (3a) and (3b) agrees with the experimental facts and that the second part can be written at least  $\gamma f(K+1)$  and  $\gamma f(K)$  respectively. However another relation to isolate the constant c

$$(K+1) \Delta_{32}(K+2) - (K+2) \Delta_{12}(K) = 2c(K+1)(K+2)$$
 (5)

is not even approximately satisfied.

We may thus say that Kramers' formula reproduces well the general features of the triplet separation but cannot be trusted in all details. This is undoubtedly due to the neglect of some interactions.

7.2 Constants of the  $B^3\Pi$  and  $C^3\Pi$  levels. We are dealing here with rotational states which are intermediate between cases a and b. It is necessary not only to take into account the deen upling of the spin from the internuclear axis through the influence of the rotation, but also the  $\Lambda$ -doubling which is the incipient decoupling of the orbital angular momentum.

This problem has been dealt with in principle by Hill and Van Vleck (1928) and Van Vleck (1929). The rotational energies are complicated functions of the angular momentum J. Budó (1935) and Hebb (1936) have worked out details for  $^3\Pi$  states, Budó without taking the  $\Lambda$ -doubling into

Table 9

Rotational and Vibrational Constants

	A	<sup>3</sup> Σ	B³II	C³II		
⊽	$B_{\mathbf{v}}$	e <sub>v</sub>	$\mathtt{B}_{\mathbf{v}}$	$\mathtt{B}_{\mathbf{v}}$		
0	1.4457		1.62849* 1.61047	1.8149		
1 2	1.4271		1.59218	1.7694		
2 3	1.3907		1.57365	1.7404		
4	1.3720	0.434	1.55509	1.6999		
5 6 7 8 9 10 11 12	1.3529 1.3338 1.3152 1.2954 1.2756*	0.433 0.431 0.430 0.426	1.53676 1.51787 1.49896 1.47940 1.46016 1.44124 1.42132 1.40150			

	$A^3\Sigma$	В³П	C³II
Β <sub>e</sub> β γ δ	1.4545 <sub>1</sub> 0.01798 -8.44.10 <sup>-5</sup>	1.63748 0.01794 -7.38.10 <sup>-5</sup>	1.8247 0.01868 -2.28.10 <sup>-3</sup> 7.33.10 <sup>-4</sup>
ယ	1460.60	1735.42	2047.09
x	13.851	15.198	28.446
у	0.00625	0.178	2.085
z	0.00172	0.0158	0.535

Rotation 
$$B_v = B_e - \alpha (v+\frac{1}{2}) + \beta (v+\frac{1}{2})^2 + \gamma (v+\frac{1}{2})^3 + \delta (v+\frac{1}{2})^4$$
  
Vibration  $E_v = \omega (v+\frac{1}{2}) - x(v+\frac{1}{2})^2 + y(v+\frac{1}{2})^3 - z(v+\frac{1}{2})^4$ 

The vibrational constants were calculated from the first eight differences for A, from the first four for B and C.

\*extrapolated

consideration, Hebb treating the more general case, and these authors have applied the results to the  $N_2$  levels.

In order to calculate  $B_y$  one can make use of the fact that for J > 2 the sum of the 6 states belonging to one value of J is independent of the interactions and equal to

# const + $[6J(J+1) - 2]B_v$

The effect of the rotational distortion expressed approximately by the term  $-6D_{\nu}K^2(K+1)^2$  is not very significant for moderate values of J and can be taken care of by an approximate value as was done for the  $A^3\Sigma$  constant. The values of  $B_{\nu}$  so calculated are listed in table 9. They are in good agreement with the values of previous investigators.

While these values of B, should be independent of the particular type of interaction and therefore quite reliable, this cannot be said of other features of the individual levels. Here the exact values of the energies do depend on the particular form of interaction. The theoretical formulas present a fair approximation but are not exact (for details see Budo and Hebb).

Some of the properties can more easily be represented graphically from the empirical data than by the rather complicated theoretical formulae. Fig. 4 represents the  $\Lambda$ -doubling for the B³Il level obtained for the higher values of J in the manner set forth on p. 28. Fig. 5 shows the rotational levels after the quantity BJ(J+1) has been subtracted from them. Without any interactions (strict case a) we would have three horizontal lines. We see that F₂ never departs very much from this horizontal line. The asymptotic values for both case a and case b are represented by BJ(J+1). The slight depression for higher J is mainly due to the term -DJ²(J+1)² representing the centrifugal distortion of the molecule.

For  $F_1$  and  $F_3$  the asymptotic values are represented by BJ(J-1) and B(J+1)(J+2). When BJ(J+1) is subtracted from this we obtain -2BJ and AB(J+1) respectively. These asymptotic values are shown by the broken lines in Fig. 5 and we see that the actual curves run parallel to these beginning with moderate values of J.

# 8. Predissociation and the High Vibrational Levels of B3II

Van der Ziel (1934) has found that for v = 12 predissociation occurs in the  $B^3\Pi$  state for J > 33. He concluded this from a weakening of the lines for these J values. It is difficult to conclude from his data whether this falling off in intensity is actually due to predissociation or at least partly to the normal falling off of the intensity for the particular rotational temperature. The issues that were at stake at that time were whether the dissociation was into a  $^4S$  plus a  $^4D$  atom as van der Ziel believed or into  $^4S+^4S$  have now been resolved f om other evidence in favor of the second possibility. In view of our present knowledge it is interesting to examine the behavior of the  $B^3\Pi$  state for high vibrational quantum numbers.

The dissociation energy of  $N_2$  into two normal molecules\* ( $^4S+^4S$ ) is 9.756 eV or 78 692 cm<sup>-1</sup>. This is, as table 8 shows between  $B_{12}$  and  $B_{13}$ , 884 cm<sup>-1</sup> above the lowest rotational state of  $B_{12}$ . This amounts to J=24 of the  $F_2$  states whereas van der Ziel believed to have observed predissociation at J=33. At J=33 the energy of the  $F_2$  state is about 730 cm<sup>-</sup> above the dissociation limit.

There is ample evidence in other cases that the visible signs of predissociation do not necessarily start at the dissociation limit, and this may be the case here. Our own observations do not reach sufficiently high J values to check this point. Taken at face value the observed predissociation limit would raise the dissociation energy by about 730 cm<sup>-1</sup> or about 0.09 volts. This should be checked with more complete data.

It is however clear on our plates that bands with v'=13 are absent or at least so weak that they do not appear among the lines of the preceding bands with v'=12. This is clearly due to predissociation of the v'=13 state of  $B^3\Pi$ . As van der Ziel found previously the interaction leading to predissociation must be extremely small. This has as consequence that as higher vibrational levels become more remote from the dissociation limit the bands begin to reappear again. Bands with v'=14 though very weak are clearly present, those with v'=15 are stronger, etc. The 17-12 band was strong enough so that its rotational structure could at least partly be analyzed (see table 11).

Unfortunately the  $\Delta v = 4$ , 5, 6 sequences which show the transitions from the high vibrational states most prominently fall into a very unfavorable region of the spectrum for our particular spectrograph. The geometry of the instrument precludes the second order. In the first order the grating is extremely weak in this wavelength range which is aggravated by the sensitivity minimum of the photographic emulsion, and the resolution here is lower than in the rest of the spectrum. These considerations have made it impractical to attempt at this time the rotational analysis of bands with even higher v' values though such bands are visible to v' = 21 or higher.

# 9. Perturbations

There are no observed irregularities in the levels of the  $A^3\Sigma$  and  $B^3\Pi$  states at least for the values of v and J considered here except the predissociation of  $B^3\Pi$  discussed in the preceding section.

There are many small perturbations, however, in the C<sup>3</sup>II levels which manifest themselves in irregularities in the rotational structure of the bands of the second positive group. Many of these perturbations were

<sup>\*</sup>The numerical values concerning the  $N_2$  states are taken from Mulliken (1957)

recognized by the early observers and have been most completely studied by Coster, Brons and v. d. Ziel (1933) with some later comments by Guntsch (1933). None of these authors have reached a satisfactory interpretation.

In examining our plates and measurements we find that the perturbations are much more extensive than hitherto reported. Most energy shifts are however small. They can easily be masked by blends, or perturbations may be suggested by unrecognized blends. In order to establish such perturbations clearly several bands with the same v' should be available preferably each measured at different rotational temperatures. Time has so far been lacking to make such a thorough and tedious analysis and therefore the following remarks must be considered as preliminary. We expect to continue the analysis when time permits.

There are two observable effects of the perturbations, shift of an energy level and anomalous intensities. Both effects are seen conspicuously in the second positive group.

The cause of perturbations is, as first shown by Kronig, the interaction between two neighboring states through a small interaction term in the Hamiltonian that is usually left out when an approximate solution of the wave equation is required. Such an approximate solution is usually adequate for describing the energy levels except in the immediate vicinity of the perturbations.

Kronig showed that two states can interact with each other only if they have the same J and the same symmetry. Moreover the values of  $\Lambda$  must differ by  $^{\frac{1}{2}}$ 1 (class A or rotational perturbations) or by zero (class B or vibrational perturbations). In both cases the perturbation will affect the rotational levels; in class A perturbations the interaction is between rotational and electronic motion, in class B between vibrational and electronic motion. Furthermore triplet states are perturbed in general more easily by triplet states than by states of other multiplicities.

We may say that the perturbation is explained when the perturbing state is identified. Such an identification has not been possible so far for any perturbations in the  $C^3\Pi$  levels although Coster, Brons and van der Zicl held a  $^3\Delta$  level responsible for the perturbations in the  $\mathbf{v}^i$  =3 levels.

If the perturbing states are separated by an interval 2d and the interaction matrix element is S the magnitude of the displacement is

$$\epsilon = \delta + \sqrt{\delta^2 + S^2}$$
 (6)

where the upper sign holds for  $\delta > 0$  the lower one for  $\delta < 0$ . The perturbing state has a displacement of the same magnitude but the opposite sign.

When the perturbation matrix contains also diagonal elements the formulae are slightly more complicated but no essential features are changed as the perturbations through the diagonal elements can be applied

first and changes the distance  $2\delta$  into  $2\delta^{i} = 2\delta - S_{11} + S_{22}$ , and the average value into

$$\int_{0}^{2} = \frac{2J + S_{11} + S_{22}}{2}$$

## (6) becomes then

$$\epsilon = \delta_0 \mp \sqrt{\delta^2 + S^2}$$

The wave functions are

$$\psi_1 = a_{11}\psi_1^0 + a_{12}\psi_2^0$$

$$\psi_2 = a_{21}\psi_1^0 + a_{22}\psi_2^0$$

where the coefficients  $\mathbf{a}_{ij}$  can be calculated in terms of  $\boldsymbol{\delta}$  and  $\boldsymbol{\delta}$  and form a unitary matrix.

Let us consider transitions to a lower state 3 and consider the matrix components  $D_{13}$  and  $D_{23}$  of the electric moment of the perturbed states. Let us assume that  $D_{13}^0$  and  $D_{23}^0$  respectively are the analogous quantities for the unperturbed states and that  $D_{23}^0$  = 0 that therefore the perturbing state 2 does not combine with the lower state through an allowed dipole transition. We have then

$$D_{13} = a_{11}D_{13}^{0}$$
  $D_{23} = a_{21}D_{23}^{0}$ 

and the intensities are proportional to the squares\* of these quantities

$$I_{13} = \alpha a_{11}^2 D_{13}^{0}^2 = a_{11}^2 I_{13}^0$$
  
 $I_{23} = a_{21}^2 I_{13}^0$   
 $I_{13} + I_{23} = (a_{11}^2 + a_{21}^2) I_{13}^0 = I_{13}^0$ 

because of the unitary character of the aij matrix.

We have thus the following situation. Where without the perturbation we have one line with the intensity  $I_{13}^0$  we have now two lines but the sum of the intensities of the two lines must equal that of the single unperturbed line.

If the perturbation is due to an interaction between more than two levels the situation may be considerably more complex. We shall pursue first the simpler case.

<sup>\*</sup>All quantities are assumed to be real. Should they be complex the square of the modulus replaces the squares.

For the second positive group the state labelled (1) is C<sup>3</sup>II, the state (3) is B<sup>3</sup>II and the state (2) the unknown perturbing level which must have the same J as (1). We know that (2) does not combine noticeably with (3) because otherwise we would see bands corresponding to these transitions in the vicinity of the particular second positive group band, and such bands are not observed.

We find a number of cases of energy level shifts, particula ly well pronounced for v=1. There are also-cases where there are anomalous intensities without noticeable energy shifts. In some cases lines practically disappear (see the examples given for v'=3). We have just seen that under the assumption of perturbations by an interacting pair such a disappearance is impossible. A line might be weakened but there should be then an additional line to make up for the lost intensity. These abnormal intensities must therefore have another explanation.

The intensity of a spectrum line is the product of the transition probability and the number of molecules in the upper state. The usual explanation of anomalous intensities in perturbations attributes them to anomalous transition probabilities. We believe that there is good evidence that for the second positive group the abnormal intensities are due to abnormal occupation numbers in the levels of the C<sup>3</sup>II state. We shall first give the empirical evidence concerning the perturbations as it can be obtained from the limited material available.

v=0. No perturbations have previously been reported in this vibrational level. There seem, however to be small irregularities in the  $\Lambda$ -doubling close to the limits of experimental errors. There is one such case in  $F_1$  for J=18. The  $\Lambda$ -doubling for both  $R_117$  and  $P_119$  is 0.99 cm<sup>-1</sup> smaller than for neighboring lines, and it appears that the weak (short wavelength) component is perturbed.

Perturbation of only one component in a  $\Lambda$ -doublet is an indication (though not a proof) that the perturbing level is a  $\Sigma$ -level. It would have to have weak levels for even J. The  $a^{-1}\Sigma_u$  level has this property. The fact that we are dealing with a triplet singlet perturbation would explain the smallness of the effect. Further measurements will have to show whether this perturbation is real. Extrapolation from the known levels of  $a^{-1}\Sigma_u$  shows that the v=16 level of that state has approximately the right position to be responsible for the perturbation.

The bands with  $v^{\dagger} = 0$  show other pecularities. Fig. 6 shows a microphotometer trace of the R-branch of the  $\hat{v}$ -0 band taken at low pressure and temperature. It shows that successive triplets are alternately weak and strong (K<sup>n</sup> even strong, K<sup>n</sup> odd; weak). Furthermore it is apparent that the ratio of the strong to the weak component in the  $R_1$   $\Lambda$ -doublets is large for even J' and close to one for odd J'instead of the expected constant ratio 2:1. This is observed also for other values of  $v^{\dagger}$ . The significance of this will be discussed later on.

 $v^{t} = 1$  (obtained from 1-4 band and qualitatively checked on microphotometer traces of other 1-3  $v^{t}$  bands). Here genuine perturbations

have been reported previously. There was a difference of opinion about these perturbations between Guntsch on the one side and Coster and collaborators on the other side. Our own observations tend to give us a structure of the perturbations which does not agree completely with either Coster or Guntsch, but it needs verification in other bands.

 $R_1Z0$  and  $P_1ZZ$  show a conspicuous anomaly. Instead of the regular two components of the  $\Lambda$ -doublet there are four components. We can calculate the expected position of the doublet by fitting a quadratic interpolation formula to the previous six  $R_1$  lines, and do the same thing for  $P_1ZZ$ . We obtain

	Extrapol.	Observed	Displa	ced from
	-	lines	(s)	(w)
R,20	25 183.77 (s)	185.15 (5)	+1.38	+1.68
•	183.47 (w)	184.08 (7)	+0.31	+ <u>0.61</u>
		183.68 (8)	- <u>0.09</u>	+0.21
		183.26 (6)	-0.51	-0.21
P <sub>1</sub> 22	25 055.75 (3)	057.13 (6)	+1.38	+1.61
•	25 055.75 (3) 055.52 (w)	057.13 (6) 056.08 (6)	+0.33	+ <u>0.56</u>
	•	055.62 (10)*	-0.13	+0.10
		055.25 (7)	-0.50	-0.27

All observed  $R_120$  lines are free from known blends, while the lines of  $P_122$  marked by an \* are blended by lines which are weak when the rotational temperature is low. The presence of the four lines is thus well established and confirmed by other bands with  $v^i = 1$  (Fig. 7). The agreement of the shifts in column (s) is excellent but deceptive as we shall presently see.

As both the strong and weak components are shifted there must be a pair of perturbing levels with opposite symmetry such as the two components of a lambda doublet. We should have therefore two lines with strong and two with weak symmetry, the first combining with a strong the second with a weak lower level. In order to find the shifts we must therefore take two values from column (s) and two from column (w). It seems reasonable to assume that the strongest components come from the unperturbed strong line. With this assumption we obtain the choice indicated by the underlined values. We next find the unperturbed lambda doubling of the upper level for J = 21 by extrapolating from the preceding unperturbed values and find 1.15 cm<sup>-1</sup>. This gives the arrangement of the unperturbed and perturbed levels as indicated in Fig. 8. If we keep in mind that the upper level of a perturbing pair is just as much pushed up as the lower one is pushed down we obtain the broken levels as the unshifted position of the perturbing  $\Lambda$ -doublet.

Should there be any diagonal terms in the perturbation matrix and should they differ for the two states the broken levels give the position after the diagonal perturbation has been applied.

The narrowness of the A-doublet of the perturbing level is quite compatible with the perturbing state being a A-state.

For the  $F_2$  state J = 17 a similar analysis can be made but less reliably so as because of interference with other lines the four components cannot be all located with certainty.

Finally for  $F_3$ , J = 13 the shift is small (about -0.20) and there is strong interference both in the 1-3 and 1-4 bands but not in the 1-7 band. No extra line has been observed. That this is a genuine perturbation is supported by evidence on the intensities of these lines in the argon nitrogen afterglow.

In the A-N2 afterglow described in section 2, the 2nd positive group is very weak compared to the 1st positive group. In all bands with v' = 1the perturbed lines just described  $(J_1 = 21, J_2 = 17, J_3 = 13)$  are conspicuously enhanced in intensity so that they stand out prominently (Fig. 9). This shows quite decisively that in this case the anomalous intensities cannot be due to abnormal transition probabilities for these could not be affected in this way by the discharge conditions.

The mechanism is probably as follows. The transfer of energy from the excited or ionized argon atoms will preferentially excite a particular state through a process not yet understood. Through collisions this energy is transferred to the C3II state when an energy level is very near, which is the case when a perturbation occurs. When the number of collisions between N2 molecules is very large, thermal equilibrium is established and the perturbed levels do no more have an anomalously high population.

We do not have sufficient information to fix the nature of the intermediate state. We have seen above that it is very likely a A-state and we know that there is both a  ${}^1\!\Delta_u$  and  ${}^3\!\Delta_u$  state below  $C^3\Pi$  the higher vibrational states of which would have the right energy to cause the perturbations. The <sup>3</sup>Δ<sub>u</sub> state has not been found empirically, the lower vibrational levels of  $w^{1}\Delta_{u}$  are known. A rough extrapolation shows that v = 13 of  $w^{1}\Delta_{u}$  could be the state.

We know that singlet and triplet states can interact weakly in N2 and the idea that a singlet state could be preferentially excited looks attractive. There are however a number of other facts unexplained by this choice. One of these is the behavior of the other perturbations for v = 1. These will now briefly be outlined.

 $J_1 = 21$ = 22treated above

normal

gives rise to strong single R<sub>1</sub>22 line; -0.21 cm<sup>-1</sup> from expected position

= 24 to 40 all lines have normal A-doubling R<sub>1</sub>24-26 are about 0.14 higher than calculated position. No higher R<sub>1</sub> lines reliably observable. Extrapolation for the P1 lines not sufficiently accurate

J<sub>2</sub> = 17 treated above
 = 18 to 21 +0.15, 0.12, 0.09, 0.04 respectively from expected value but with normal Λ-doubling.
 = 22 weak component of R<sub>2</sub>21 close to calculated position strong one +0.48. Λ-doubling 0.57. Evidence of at least one extra line.
 No conspicuous perturbations observed for J<sub>2</sub> > 22.

No clear perturbations observed for the  $F_3$  component for  $J_3 > 13$ .

The presence of these additional perturbations is incompatible with their being all caused by one  ${}^{1}\Delta$  state. A  ${}^{3}\Delta$  state on the other hand could produce three perturbations in each triplet component. The situation is not clear enough at the present time to decide whether the perturbations in the  $\mathbf{v}^{1}=1$  state are all produced by one  ${}^{3}\Delta$  state or whether the additional perturbations are due to interaction with an entirely different state.

We have had no opportunity yet to examine in detail the perturbations for  $v^1 = 2$  which Coster, Brons and van der Ziel attributed to a  $^{5}$ II state.

For v = 3 the situation is as follows.

The conspicuous features in the bands with  $v^*=3$  are not displacements of energy levels but intensity anomalies. The situation whe R-branches of the 3-5, 3-7 and 3-8 bands is shown in Fig. 10. Then no conspicuous anomalies up to  $K^*=14$ . The  $K^*=15$  triplet has the notice component very much weakened. For  $K^*=16$  the two outer components are weak particularly  $R_1$ . The  $K^*=17$  triplet is entirely missing. In  $K^*=18$  the outer components are weak particularly  $R_3$  and for  $K^*=19$  the middle component is weak.

In all these cases there are no conspicuous energy shifts. In some cases the lines are so weak that it is not certain whether they are present or not because of interfering weak lines of different origin nearby. The analysis of other bands with v<sup>i</sup> = 3 will undoubtedly improve the situation in this respect.

We have seen above that the disappearance or conspicuous weakening of lines cannot be explained by anomalous transition probabilities due to perturbations when only a pair of levels interact. The disappearance of discrete emission lines is observed when predissociation is present and is a more sensitive criterion for predissociation then the broadening of lines. For v = 3 of C $\frac{1}{2}$  If there is no reason to suspect predissociation as these levels are much above the  $\frac{4}{2}$ S and below the  $\frac{4}{2}$ S limit. There would be no reason for particular rotational states being selectively affected.

There is however the possibility of interaction of two discrete states through collisions, when the second state has slightly less energy than the first and both states have the proper symmetry. Such collisions have a particularly large cross section and will depopulate the first state. There is not gate enough evidence at present to fix the nature of the interacting state. This process is evidently just the opposite of what is observed for the perturbed levels of v = 1 in the argon afterglow as shown in Fig. 9.

A similar process will also explain the infinity anomalies in the 0-0 band shown in Fig. 6. The lines R 16 to reason we id not occur in thermal equilibrium at the effective temperature of the discharge and are absent in most other bands. For this reason we belief e that these levels are populated by collisions with molecules in another state lying above than an order to account for the observed phenomena this state should be a state. We know that only strong levels can interact with strong levels can in collisions. Furthermore we assume that the interaction is a minus level will interact only with a minus level or at least preferentially so, and a plus level with a plus level.

If the situation is as shown in Fig. 11 the strong  $\Sigma$  rotational levels can interact only with the strong lower components of the II states i.e. those with odd K. This means that these states are preferentially strenghtened which has as consequence that the lines coming from such states i.e. the even numbered lines, are relatively stronger than the odd numbered ones. Moreover the strong component of the  $\Lambda$ -doublet is strengthened. For the even numbered K of  $C^3\Pi$  the situation is reversed. The weak component of the  $\Lambda$ -doublet is strengthened but not as much as the strong one for odd J. This makes the resultant line relatively weaker and the resultant  $\Lambda$ -doublets have a relatively strong weak component. For a collision the J values do not necessarily have to be the same.

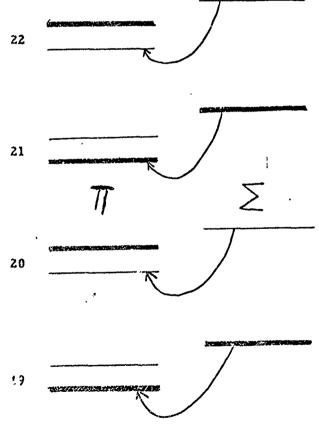


Figure 11

This is what is observed. We cannot expect that the process sketched here is the only one which can populate the higher rotational levels of the C<sup>3</sup>II state and therefore the anomalies do not show as pronouncedly as they would if there were no other process.

While we have here a process by which the observed anomalies can be explained qualitatively the details are by no means clear. The nature of the interaction should be better understood before quantitative calculations are possible. What seems probable however is that we have under certain discharge conditions considerable deviations from thermal equilibrium in the second positive group from which important clues can be obtained as to the nature of the excitation mechanism.

## 10. Comparison with Previous Work and General Outlook

For the first positive group our results agree well with those of Feast and Carroll for the 1-0 band except for the lines near the origin where our interpretation is often different. This is understandable as all previous work was done at higher rotational temperatures at which the lines near the origin are usually weak and not easily identifiable in the very crowded portions of the bands. Our analysis is in general agreement with that of Naude, although we have not duplicated the analysis of the two bands he studied. We differ for a considerable part with van der Ziel in the identification of the lines in the 12-8 band but agree in general for J > 8.

The energy levels in tables 5-7 should in general be accurate to within a few times 0.01 cm<sup>-1</sup>. The actual errors may at times however exceed this amount. This is due to two reasons. Grating wavelength measurements are subject to small systematic errors caused by a shift of the comparison spectrum. Such a shift which may be due to several causes is virtually impossible to avoid. We have observed such shifts in our measurements usually of the order of a few thousands of an Å. Whenever we have used measurements from several plates we have corrected for such a shift by assuming arbitrarily one set to be the correct one. This should not affect the relative values of the wave numbers but may have introduced a small systematic error in the absolute values. This is of no great consequence. If such an error exists it may be different for the bands of the first and second positive groups.

The accuracy with which the combination relations are fulfilled and the consistency of values obtained from different plates indicate that the accidental errors of measurement should not exceed in general 0.01 or 0.02 cm<sup>-1</sup>. This is true only for good lines, that is lines which are not blends or part of a very close doublet or very weak. For the unfavorable lines the error may be considerably greater, in the most unfavorable cases (a weak line blended by a strong one) up to the resolution of the grating or the width of line. Blends have usually been excluded from the calculation of the energy levels. Such calculations often have been made when the analysis was not completed and the blends therefore not all recognized. We could undoubtedly increase the accuracy of the energy levels somewhat by repeating the calculations systematically taking into account all data now available. It is more than questionable that the slight improvement that might be expected would be commensurate with

the considerable additional labor that such a procedure would entail

As mentioned earlier, levels with high I may have considerably larger cumulative accidental errors than those with low and medium J.

For the second positive group extensive previous data exist. It appears that our resolution is considerably better as shown particularly by the resolution of the  $R_2$  and  $P_2$  /-doublets. The increased resolution is partly due to the use of a better grating, partly to the increased sharpness of the lines in the low pressure low temperature discharge. For the same reasons, our wavelength accuracy appears to be somewhat higher than that of previous workers.

The main features of the structure of the bands of the second positive group had been firmly established and we find no disagreement with our results. As for the first positive group the low temperature brings out the lines in the vicinity of the origin which were often missing from previous analyses. In particular the short  $Q_2$  and  $Q_3$  branches are prominent in all bands and the  $\Lambda$ -doubling for the  $Q_2$  branch easily established. The clean background at the low pressure made it possible for the first time to establish the weak satellite branches.

We believe that much more can be learned from the perturbations in the C<sup>3</sup>II levels. The low temperature condition does not bring out the J-values at which they occur. For a thorough analysis of the perturbations the measurement and analysis of several bands with the same v<sup>1</sup> is necessary. Otherwise it will be difficult to decide whether the slight anomalies are genuine perturbations or due to blends. The chance for blends increases with the temperature of the gas and therefore the bands should be studied at several temperatures.

We have shown that intensity anomalies exist even in bands not affected by perturbations in the energy values. Such anomalies which indicate a departure from thermal equilibrium are important clues for the excitation mechanism, but more work needs to be done before their significance can be fully understood. Further knowledge about the structure of the other low lying states of the N<sub>2</sub> molecule would be very helpful. We hope to present some contribution to this in a subsequent report.

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System in Absorption

Table 10
Selected Bands of the 2nd Positive Group of Nitrogen

The following bands are listed

Transition	λ	Dia	ch.	Measur	ements on	Plates	Page
1-1	3330	I		58P101c			47
00	3371	I		58F101c	59P328a	59P330a	47
2-3	3500	I		58P101d			50
2-4	3710	I		58P101e	•		50
1-3	3755	I		58P101e	•		51
1-4	3998	I	I <sub>2</sub>	58P101f	59P355d		5 <b>2</b>
0-3	4059	1	I <sub>2</sub>	58P101f	59P355d		53
.4-8	4095	1	I <sub>2</sub>	59P330d	59P355d		59
3-7	41 42	I	I <sub>2</sub>	59P330d	59P355d		61
1-7	4917	I		58P380i			67

- I N<sub>2</sub> pressure 0.01 mm, discharge cooled with liquid nitrogen
- I<sub>2</sub> N<sub>2</sub> pressure 1.0 mm

The intensities listed in the tables are eye estimates. Unclassified lines of intensity 0 or 1 have usually been omitted. The wavelengths are given for easy identification of the lines. They are not always the best averages.

All measurements were from second order plates with a dispersion of 0.6  $\mbox{Å/mm}$ .

Table 10 Selected Bands of the 2nd Positive Group of Nitrogea

1	1	,	Cı	assific 1-1	ation	λ	1		CI	assific 0-9	ation
3337.076	4	29 957, 77			Q <sub>1</sub> 2	3331.608	3	29 8 7.88	2.31	T	1
37.247	3	956.23	P <sub>1</sub> 3	1	1 200	51.926	3		R <sub>1</sub> 21	1	1
37.486	4	954.09	1 52	1,,	1 1			925.02	1	R <sub>2</sub> 20	I
37.690	3	952.26	P <sub>1</sub> 4	P <sub>2</sub> Z	1 1	52.238	3	822.28	1 .	1	R219
37.767	Ž		P <sub>1</sub> 5	1	1 1	52.002	1	817.26	R,20	1	1
31.101	1	951.57	ł	P <sub>2</sub> 3	1 1	52.838	2	816.94	R,20	1	
37.861	3	950.72	P <sub>1</sub> 6	1		53.168	3	815.01	1	R219	1
38.008	4	949.40	P <sub>1</sub> 7	P <sub>2</sub> 4	1 1	53.498	13	811.07	i		R,16
38.110	3	948.49	P.8	1	1 1	53.560	2	810.52	•	1	
38.204	4	947.65	P, IQP,	9 P.5	1 1	53.741	2	808.91	1	1	1
38.247	1	947.26	1	•	P,3	54.023	3	806.41	R,19	1	
38.305	1	946.74	1	P,13	1 1	64 377	3	202.26		I	1
38.363	3	946,22	1		1 1	54.377		803,26	I	R218	1
38.442	i		į	P,6	1 1	54,710	3	800.30	1	1	R,17
38.480	4	945.51	1	P212	1	54.938	2	798.28	i	1	1
	- 1	945.17	1	P27	P,4	55.135	1	796.53	R,18	1	1
38.522	1	944.79	1	P211	1	55.175	1	796.17	R,18	1	1
38.555	2	944.50	[	P18		55.539	3	792.94	1	1	1
38.584	3	944.24	[P210	P.9	1 1	55.785	2		1	Rg17	1.
38.661	3	943.55	TE.310	F27	1 2 1			790.75	i	•	1
38.756	i l	942.69	1	1	P,5	55.899	3	789.74	1	i	R,16
38.789	3		<b>;</b>	1	P,11	56.101	2	787.95	j	1	1
20. 107	1	242.40	`	1	P36	56.176	1	787.28	1	1	1
38.871	2	941.66	ł	1	P,7	56.270	3	786.45	R,17	1.	1
38.906	4	941.35	ł	P,9	P,8	56.670	13	782.90	13	Rel6	ŧ .
í	ı	1	ĺ		1 - 1	57.026	4	779.74	f	1400	1
				<del> </del>	<del> </del>	57.221	l i	778.01	I	ı	R <sub>3</sub> 15
1	ı			0-0	1 1	57.305	2	777.27	R,16	1	1
39,149	1 [	939.17		ł	R,28	57 340	2	776.06	f -	1	1
40.294	ž	928.91		1	Ryco	57.340		776.96	R <sub>1</sub> 16	1	1
40.507	ž l			1	1 1	57.747	3	773.35	ŧ :	Re15	Į
40.764	2	927.00		R <sub>2</sub> 27	1 1	57.959	2	771.47	1	1	1
		924.70			R,27	58.091	2	770.30		i	l
42.071	2	912.99		R126	i 1:	58.130	3	769.95		l	R314
42.333	2	910.65			R,26	58.290	3	768.53			1
43.366	2	901.41			"	58,320	lī l	768.27	R,15	l	i
43.603	2	899.29		1		58,352	4	767.98	R,15		1
43.867.	2	896.93		1	1 1	58.796	4	764.05	4813	20.4	i
44.835	1	888.28	R <sub>1</sub> 26			59.118	2	761.20		R <sub>2</sub> 14 P <sub>2</sub> 33	1
45, 085	2	886.05		ء, د		60 100		7(0 (-		•	
45.363	2	883.56		R <sub>2</sub> 25		59.183	4	760.62	!	Ī	R <sub>3</sub> 13
46,277	3	875.40	D 24	1 1	R,24	59.294	3	759,63	R <sub>2</sub> 14		7
46.536	3 l		R <sub>1</sub> 25		}!	59.326	4	759.35	R <sub>1</sub> 14		£ .
	3	873.09		R <sub>2</sub> 24		59.783	4	755.30		R <sub>2</sub> 13	•
46.816	1	870.59			R323	59.801	3	755.15		R <sub>2</sub> 13	1
47.663	24	863.03	R <sub>1</sub> 24			59.966	,	753.68	1		1
47.938	3	860.58		R <sub>3</sub> 23	11	60,107	<b>i</b>	752.44		23 44	l
48.234	1	857.94	ì	,3	R,22	60,203	5	751.59	!	Panz	
49. 436	3	850, 88	R,23	1	>	60.225	4 1	751.39	٠, , , ا		R,12
	3	848.35	,,	R,22	[ ]	60.259	7	751.09	R <sub>1</sub> 13		
49.606	3	945	- 1		!!						
	ZЪ	845.71	· i	- 1	R,21	60.313	3	750.61	1		1
	3	839.31	RIZZ	1	11	60.756	7	746.69	1	R <sub>2</sub> 12	l
	3	836.55	ì	P.221		60.894	2d }	745.47	1	- 1	
	• 1	833.84	. 1	1	R <sub>3</sub> 20	61.052	2 1	744.08	Į.	P <sub>3</sub> 31	ī
	2	831.34	i		3   1	61.114	6	743.52		F134 1	1

					<del></del>	•	.,				
À	.1	•	Cla	eeificat 0-0	ion	, 1	1	•	Cl	o-0 0-0	tion
3361:148	5	29 743.22	R,12			3366.29	12	29 657.76		R <sub>3</sub> 5	
61.182	7	742.92	***		Rell	66.49		695.99			
61.258	. 5	742.25			ì	66.52	3 2	695.69	1		
61.361	7	738. <del>69</del>		Rall	1 1	66.62	) 2	694.88			•
61.679	6	738.53		Rall	1 1	66,68	13	694.30	R <sub>1</sub> 4		
61.730	Z	739.67			Q <sub>12</sub> 5	66.71	122	694.08	R14		
61.799	3	737.46			-4-	66.78	3	693.43		1	
61.957	7	736.07	R,11		1 1	66.83		692.99			
61.994	9	735.74	R <sub>1</sub> 11		i l	66.91	116	692,30	1	R24	R <sub>3</sub> 4
62, 121	9	734,61	Ť		R,10	66.98	3	691.68		Ω <sub>0</sub> 10	_
62.169	4	734.19			! !	67.09	3	690.65		0,10	
62.536		730.94		R <sub>2</sub> 10	1 1	67.20		689.74	R <sub>L</sub> 3		
52.557	90	730,76		R.10	1	67.23	113	689.56	R <sub>1</sub> 3		1
62,605	3	730,34			Q <sub>32</sub> 4	67.33	1 3	688,59		1	
62.655	2	729.90			-	67.39	2	688.08	1		
62.705	z	729.43			1 1	67.43	3	687.74		Ω <sub>2</sub> 9	
62.760	9	728.97	R,10			67.48		687.29	1	R <sub>2</sub> 3	
62,798	8	728,63	RIO		i i	67.52		686.88	1 1	0.9	
63.022		725.65			R,9	67.56		666.52	1		R <sub>3</sub> 3
63,371	10	723,57		R <sub>2</sub> 9	"	67.68	12	685.54	X,2		
63 305	9	723.40		ا ه ا		67.69	116	585,40	R <sub>1</sub> 2		
63,395 63,519	1	722.27	1.,9	₽29	Ru3	67.80		684.47		Qs	
63.557		721.96	R.9			67.86		683.89	1	-4-	Ω <sub>3</sub> 8
63.636	4	721.23	~"'		1	67.90		683.57	1	Q <sub>2</sub> s	~,-
€3.728	2	720.41				67.92		683.38			
63,883	11	719.05				68.01	13	682.59	}	2,2	
63.999	2	718.02			R,8	68.12		681.62	Ral	~3~	
64.128	Ž	716.88		1	R <sub>M</sub> 2	68.13		681.52	R		
64.159	9	716.61	•	R,8		68.17		681.14	[P <sub>3</sub> 21	Q.7	RyZ
64.178	11	716.44		R,8	1 1	68.22	7   2	680.71	, -	Q <sub>6</sub> 7	
61.235	12	715.93	R18	,	1 1	68.26	7	680.37			Ω <sub>3</sub> 7
64,273	9	715.64	R18	i	1 1	68.33		679.77			1431
6/ 414	3	714.35	,,	P227	1	68.38		679.31	P,21		
64.637	3	712.38			1	68.42		678.94	P121	1	P,20
64.701	12	711.82			R,7	68.44	7 6	678.78	] '	Ral	
64.771	3	711.20			1 1	68.50	12	678.31		Q <sub>3</sub> 6	i '
64.850	Ź	710.50	}	1	} !	68.53		677.99	R <sub>1</sub> O	Q	l '
64.909	13	709.98	R,7	R <sub>2</sub> 7		68.61		677.30	1 ""	~~	Ω,6
64.938	13	709.73	R,7			68.67	. 3	676.79	}	P,20	
65.149	4	707.86	]			68.71	5	676.45		0,5	. :
65.375	4	705.87		1	1	68.75	6	676.03	1	O <sub>2</sub> 5	l
65,404	20	705.61		1		68.84		675.24	P,20	-1-	
65.478	13	704.95	Ì	]	R,6	68.88	1	674.97	P <sub>1</sub> 20		1
65.541	13	704.41	R,6			68.92	11	674.61	1		C <sub>2</sub> 5
65.570	10	704.15	R <sub>1</sub> 6		l Ì	68.96	5	674.24	l	C <sub>2</sub> 4	
65.634	12ь	703.58	)	R <sub>2</sub> 6		69.09	6 6	673.06	l	O <sub>2</sub> 3	
65.842	3	701.75	ł ·	***		69.12		672.84	1	Q3	
65.914	2	701.11	1	1	1 1	69.17		672.34	ł	~	Ω <sub>3</sub> 4
65.993	2	700.42	I	ì	1 1	69.22	8 6	671.91	]	Q <sub>3</sub> 2	
66.026	2	700.12	İ			69.25	7 10	671.64	P <sub>1</sub> 1	Qt	
66.074	3	699.78	1	į		69.33	13	671.18	1		
66.135	lií	699.16	R,5	1	)	69.36		670.49	1	1	Ω,3
66,162	14	698.92	R <sub>1</sub> 5	1	]	69.46		669.81	l	1	-,-
66.217	14	698.43	1	I	R,5	69.50	1 1	669.47	l	Pris	l '
66.281	13	697.87	l	R25		69.53		669.16	t	1 1	1
L	L	L	<u></u>		II	1	_L_	<u> </u>	<u> </u>		L

2.2.2.

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	1	v	Cla	ssificat: 0-0	401	λ	1	1,	V	Cl	zesificat 0-0	ion
3369.551 69.563 69.614 69.673 69.769	16 1 2 3 5	29 669.05 668.95 668.50 667.98 667.13	P <sub>1</sub> 2		Ω <sub>2</sub> 2	3372.741 73.002 73.099 73.143 73.179	1 10		29 640.93 638.70 637.88 637.46 637.14		R <sub>12</sub> 2	O218 O217 O217 O216
69.844 69.907 69.964 70.037 70.088	15b 4 2 13 16	666.47 665.92 665.42 664.77 664.33	P <sub>1</sub> 3 P <sub>1</sub> 17 P <sub>1</sub> 4	P <sub>2</sub> 17	P316	73.22 73.26 73.29 73.33 73.37	5 0	8* 8 4 2	636,74 636,41 636,12 635,77 635,39	[Q <sub>13</sub> 2	Q <sub>23</sub> 5  Q <sub>23</sub> 4  Q <sub>23</sub> 3  Q <sub>12</sub> 9	C255 C255 C254
70.137 70.174 70.227 70.257 70.302	2 5 3 2 16	663.90 663.57 563.10 662.84 662.44	P <sub>1</sub> 16 P <sub>1</sub> 16 P <sub>1</sub> 5	P <sub>2</sub> 16		73.42 73.46 73.50 73.53 73.55		6 3 5 2 5	634.95 634.61 634.27 634.02 633.80		Ω <sub>12</sub> 6 Ω <sub>12</sub> 8 Q <sub>12</sub> 5	
70.322 70.381 70.438 70.480 70.537	15c 6 6 16	662.27 661.75 661.24 660.87 660.37	P <sub>1</sub> 15 P <sub>1</sub> 6 P <sub>1</sub> 14	P <sub>1</sub> 3	P <sub>3</sub> 15	73.57 73.60 73.63 73.65 73.67	5	5c 3 5 2	633.63 633.39 633.12 632.95 632.78	[Q] <sub>1</sub> 4 [Q] <sub>1</sub> 1	C <sub>12</sub> 7 Q <sub>12</sub> 3 Q <sub>12</sub> 2 Q <sub>12</sub> 6	
70.567 70.623 70.665 70.680 70.690	16c 16 7 6 7	660.11 659.58 659.25 659.12 659.03	P <sub>1</sub> 14 P <sub>1</sub> 7	P <sub>2</sub> 4		73.72 73.75 73.81 73.83 73.85	0 2 1 1 3	2 6 5 1 6	632.36 632.13 631.59 631.40 631.18	[0]:1	Ω <sub>12</sub> 5 Ω <sub>12</sub> 4 Ω <sub>13</sub> 3	
70.728 70.767 70.807 70.824 70.841	13 16c 13 13	658.69 658.35 658.00 657.85 657.70	P <sub>1</sub> 8 P <sub>2</sub> 9 P <sub>2</sub> 10 P <sub>1</sub> 11	P <sub>2</sub> 5 P <sub>1</sub> 11] P <sub>2</sub> 13	P <sub>3</sub> 14 P <sub>3</sub> 3	73.89 73.91 73.96 73.99 74.03	7 1	3 4 1 2 4	630.90 630.69 630.22 629.94 629.63		Q <sub>12</sub> Z P <sub>12</sub> 1	
70.932 70.997 71.048 71.088 71.125	16b 16 16 8	656.90 656.33 655.88 655.53 655.20	[P <sub>2</sub> 10	P <sub>2</sub> 6 P <sub>2</sub> 12 P <sub>2</sub> 7 P <sub>2</sub> 11 P <sub>2</sub> 8	P <sub>3</sub> 13 P <sub>3</sub> 4	74.10 74.23 74.28 74.39 74.50	9  7  1	3 1 2 2 6	628.99 627.83 627.41 626.50 625.46		Pul	Pu Pu
71.151 71.165 71.278 71.320 71.377	15c 15c 9 16	654.97 654.67 653.85 653.48 652.98		P <sub>1</sub> 9	P <sub>3</sub> 12 P <sub>3</sub> 5 P <sub>3</sub> 11 P <sub>3</sub> 6 P <sub>3</sub> 10	74.63 74.74 74.88 74.90 74.97	0 3 6	3 2 1 3 2	624.34 623.43 622.18 621.98 621.34		P <sub>11</sub> 2 P <sub>12</sub> 3	P. P.
71.403 71.437 71.503 71.537 71.626	15c 16 2 3	652.76 652.46 651.88 651.58 650.79	# # #	[P <sub>3</sub> 9	P,7 P,8	75.26 75.29 75.70 75.76 75.97	8 3 7	2 10 00 00 10	614.98			P <sub>2</sub> P <sub>1</sub> R <sub>1</sub> R <sub>1</sub> P <sub>2</sub>
71.656 71.698 71.750 71.652 71.892	3 3 3 2 3	650.53 650.16 649.70 648.81 648.45	2 2 2 3			76.31 76.53 76.58	8	2 2 3	609.58 607.66 607.26			
72.021 72.075 72.108 72.142 72.336	3 2 3 3	647.32 646.85 646.56 646.26 644.55	2 2 2	R <sub>11</sub> 3								

g - First order ghosts of the strong lines in the edge

\*From here on stronger exposure

λ.	1	V	Cl	assificat 2-3	ion	λ	ı	•	Cl	seifica 2-3	tion
3490.252	1	28 643.06	R,11			3499.547	6	28 566.98	P,10	P <sub>2</sub> 4	Γ_
90.984	ia	637.05	1 .4	R,10	1	99.574	4	566.76	P <sub>1</sub> 9	. 3.	ĺ
91.095	id	636.23	R,10	1,210		99.746	5	565.36	123		1
			1 1410	ł					[P <sub>2</sub> 5 [P <sub>1</sub> 11	P <sub>2</sub> 12	P,14
91.598	1	632.02	<b>j</b> .		R39	99.904	6	564.07	1 2 2 2 2 2	P <sub>1</sub> 6	P,3
91.866	1	629.82		R <sub>2</sub> 9		99.998	6	563.30	[P,19	P <sub>2</sub> 7	P,13
91.908	1	629.48	1	Ì		3500.751	6	562.87	[P29	P <sub>2</sub> 8	ļ
91.948	2	629.15	R <sub>1</sub> 9	•		00,145	4	562.10		•	P,4
92.538	2	624.31		ł	R,8	UD. 184	ì	561.78			P,11
92.684	3	623.11	R, 8			00.312	4	56C.74	!	[P.10	P,5
92.722	2	622.80	R, 8			00.429	5	559.79	i	P,9	P,6
02 751		(22.52				20 105		***			(
92.756	2	622.53		R38	1	00.485	6	559.33	l	[P,8	P,7
93,409	1	617.17	R <sub>1</sub> 7	l	1	1	ł		l		l
93.445	5	616.88	R <sub>1</sub> 7	1	R,7	<b></b>				<del></del>	
93.549	3	616.03	1	R <sub>3</sub> 7		1	1		ļ		i
93.574	1	615.82		R <sub>2</sub> 7		1	1			2-4	1
94.093	4	611.57	R, 6	1		3698.133	1	27 033.01	'		R,11
94.130	l i l	611.27	R.6	1	1	98.931	ĺ	027.18	R,II	l	٠٠,٠٠٠
94.285	3	610.00		!	R <sub>2</sub> 6	98.981	2	026.81	Rill	ľ	l
94.333	3	609.61		R16	-2-	99.353	1 2	024.09	1	I .	R,10
94,729	2	606.37	R <sub>1</sub> 5			99.806	2	020.71		R.10	,
		4.4					•			•	
94.764	4	606.08	R <sub>1</sub> 5		l 1	99.964	2	019.63	R <sub>1</sub> 10		!
95.033	4	603.88		R <sub>2</sub> 5		3700.014	1	019.26	R,10		1
95.057	1	603.68				00.519	3	015.58			R <sub>3</sub> 9
95.694	4	603.38		i. I	R,5	00.864	3	013.06		R <sub>2</sub> 9	
95.320	4	601.53	R <sub>1</sub> 4		,	00.895	1	012.83		R,9	
95.355	2	601.24	D.4			00,935	2	012.54			1
95.711	4	598.33	R <sub>1</sub> 4	D.4	, ,	00.982	4		R <sub>1</sub> 9		
				R <sub>2</sub> 4	ا ہے ا			012.20	R <sub>1</sub> 9		
95.855	4	597.15	R <sub>1</sub> 3		R <sub>3</sub> 4	01.630	4	007.47			R,S
95.897 96.320	3 4	596.81 593.35	<b>R</b> <sub>1</sub> 3		İ	01.847 01.878	4	005.89	R <sub>1</sub> 8		
70, 340	7	393.33		R <sub>2</sub> 3		01.878	1	005.66		R <sub>2</sub> 3	ĺ
96.376	3	592.89	R,2			. 01.900	5	005.50	R,8	R28	
96.406	1	592.65	R <sub>1</sub> 2			02.686	6	26 999.77	•	•	R <sub>3</sub> 7
96.561	4	591.38			R <sub>2</sub> 3	02.706	2	999.62	R <sub>i</sub> 7		
96.861	3	588.93	Ril			02.745	6	999.34	R <sub>1</sub> 7		ļ.
96.890	4	588.69	R <sub>i</sub> l	R <sub>2</sub> 2	1	02.832	5	998.70	-1,	R,7	1
07 215	,	606 03				03.061	١, ١	000 40			ĺ
97.215	3 2	586.03	9,0		R,2	02.861	6	998.49	n (	R <sub>2</sub> 7	
97.280		585.50	R <sub>1</sub> 0		l	03.499		993.84	R <sub>1</sub> 6		ľ
97.406	3	584.47		R <sub>2</sub> l	ا بہا	03.542	4	993.53	R <sub>1</sub> 6		۱
97.581 97.932	0	583.04 580.17			Ω <sub>3</sub> 6 Ω <sub>3</sub> 5	03.683	6	992.50 992.16		Rat	R16
,,, <u></u>		550.2,				]	Ι,			. موت	
96.033	2	579.35	$P_11$	Q <sub>2</sub> 3		03.755	5	991.97		R <sub>2</sub> 6	
98.161	1	578.30		$\Omega_{\mathbf{z}}^2$	[	04,240	4	988.44	R <sub>1</sub> 5		l
98.229	2	577.75			Ω,4	04.280	6	988.15	R,5		l
98,260	3	577.49		$\Omega_{2}1$	P,18	04.564	6	986.08	•	R <sub>2</sub> 5	ŀ
98.353	3	576.73	P <sub>1</sub> 2			04.586	3	985.92		R <sub>2</sub> 5	1
09 470	3	£75 70			1	04 631	6	005 44			
98.470 98.651	6	575.78 574.30	P <sub>1</sub> 3		Ω <sub>3</sub> 3 Ω <sub>3</sub> 2	04.621	7	985.66 983.44	R14		R <sub>3</sub> 5
98.720	00	573.74	- 1-		P,17	04.964	5	983.17	R		1
98.889	š	572.35	P <sub>1</sub> 4	10,141	_ , ,, , }	05.336	3	980.46	wit.	ايرا	l
99.016	3	571.32	1,1	P <sub>1</sub> 15]		05.359	6	980.29		R <sub>2</sub> 4	
					{	1					
99.108	5	570,57	P <sub>1</sub> 5	P <sub>1</sub> 14]	P,16	05.504	7	979.23			R34
99.272	5	569.23	P <sub>1</sub> 6		l	05.561	4	978.82	R <sub>3</sub> 3		İ
	5	568,96	P <sub>1</sub> 13	P <sub>2</sub> 3	{	05.593	6	978.58	R <sub>1</sub> 3		l
99.365					13 14 /		7	975.20			
99.426	5	567.97 567.37	P <sub>1</sub> 7 P <sub>1</sub> 8	P <sub>1</sub> 13]	P,15	06.058 06.141	6	974.57	R <sub>1</sub> 2	R <sub>2</sub> 3	ŀ

N. T. Sacras

06.523   77   973,27   06.680   3   970.67   R <sub>1</sub> 1   R <sub>1</sub> 2   R <sub>2</sub> 2   39.224   2   732.09   106.693   3   970.67   R <sub>1</sub> 1   R <sub>2</sub> 2   39.762   2   732.09   106.693   104.691   106.693   39.762   2   732.09   106.693   104.691   106.693   104.691   106.693   104.691   106.693   104.691   106.693   104.691			1	r		<del></del> 1	<del></del>	1	1			
06.5223   77   973,27   06.680   3   970,65   R <sub>1</sub> 1   R <sub>2</sub> 2   39.292   1   740,46   R <sub>1</sub> 14   R <sub>2</sub> 14   06.893   0d   969,12   R <sub>1</sub> 2   R <sub>2</sub> 2   39.762   2   732.09   39.762   2	1	I	٧	Cla		tion .	λ .	1		CI		tion
06.5223   7 973,27   06.680   3 970.65   R <sub>1</sub> 1   R <sub>2</sub> 2   39.252   2 732.09   06.681   06.693   04 969.12   R <sub>1</sub> 1   R <sub>2</sub> 2   Q <sub>2</sub> 7   39.824   0 731.66   R <sub>1</sub> 14   R <sub>2</sub> 14   R <sub>2</sub> 14   06.893   0d 969.11   1 965.69   R <sub>1</sub> 0   R <sub>1</sub> 1   1 965.69   R <sub>1</sub> 0   07.300   5 966.16   R <sub>1</sub> 1   R <sub>2</sub> 1   Q <sub>2</sub> 6   Q <sub>3</sub> 7   Q <sub>3</sub> 8.839   1 731.27   R <sub>1</sub> 14   R <sub>2</sub> 13   R <sub>2</sub> 13   07.381   3 962.43   Q <sub>3</sub> 6   Q <sub>4</sub> 14   R <sub>2</sub> 14   R <sub>2</sub> 13   Q <sub>4</sub> 5   Q <sub>4</sub> 1   Q <sub></sub>	200/ 124	1-	26 074 36	7.2			2720 220	<del>                                     </del>	26 742 41			
06.689   3   970.67   R <sub>1</sub> 1   R <sub>2</sub> 2   39.224   2   735.94   R <sub>2</sub> 14   R <sub>2</sub> 14   06.893   0d   969.12   R <sub>1</sub> 0   R <sub>2</sub> 10				K14		D.3				D.14	1	R,15
06.711   7   970.45   R <sub>1</sub> 1   R <sub>2</sub> 2   0,7   39.762   2   732.09				P.1	1	[ ^\3-				V1-4	D.14	
06.893   0d   969.12   Q <sub>3</sub> 7   39.824   0   731.66   R <sub>1</sub> 14   Q <sub>1</sub> 15   Q <sub>1</sub> 15   Q <sub>1</sub> 15   Q <sub>2</sub> 15   Q <sub>3</sub> 15   Q <sub></sub>	06.003				B.2					ł	1,77.2	
07.079   6   967.77   R <sub>1</sub> 0   R <sub>2</sub> 1   39,879   1   731.27   R <sub>2</sub> 14   R <sub>2</sub> 13   07.191   1   966.96   R <sub>1</sub> 0   07.300   5   966.16   07.384   2   965.55   0   R <sub>2</sub> 1   0 <sub>3</sub> 6   41.147   1   72.22.20   R <sub>2</sub> 13   07.987   1   961.17   08.020   4   960.93   P <sub>2</sub> 1   08.020   5   712.53   R <sub>2</sub> 12   R <sub>2</sub> 12   08.020   6   959.19   08.165   6   958.42   P <sub>2</sub> 2   0 <sub>2</sub> 4   42.502   5   712.53   R <sub>2</sub> 12   08.671   6   956.19   P <sub>2</sub> 3   08.671   6   956.25   P <sub>2</sub> 4   09.056   3   953.40   P <sub>2</sub> 13   09.106   6   952.74   P <sub>2</sub> 5   09.146   6   952.74   P <sub>2</sub> 6   09.146   09				- ···		0.7					1 [	R,13
07,168   3   967,12   R <sub>1</sub> 0   07,191   1   966,696   R <sub>1</sub> 0   07,191   1   966,696   R <sub>1</sub> 0   07,300   5   966,16   07,384   2   965,55   08,100   07,384   3   962,43   07,987   1   961,17   08,020   4   960,93   P <sub>1</sub> 1   08,020   6   953,06   968,02   P <sub>1</sub> 3   08,420   P <sub>1</sub> 3   08,420   4   42,533   4   713,59   R <sub>1</sub> 12   R <sub>2</sub> 12   08,420   6   955,76   4   08,671   6   956,00   P <sub>1</sub> 3   0 <sub>2</sub> 2   0 <sub>2</sub> 4   43,497   3   705,43   R <sub>2</sub> 11   R <sub>2</sub> 11   08,671   6   956,00   P <sub>1</sub> 3   0 <sub>2</sub> 2   43,497   3   705,43   R <sub>2</sub> 11   R <sub>2</sub> 11   08,672   6   953,06   P <sub>1</sub> 3   0 <sub>2</sub> 2   44,397   3   705,43   R <sub>1</sub> 11   R <sub>2</sub> 11   08,072   6   953,06   P <sub>1</sub> 3   0 <sub>2</sub> 2   44,397   7   705,111   R <sub>1</sub> 11   08,073   09,167   8   955,00   P <sub>1</sub> 3   0 <sub>2</sub> 2   44,397   7   705,111   R <sub>1</sub> 11   09,167   8   955,00   P <sub>1</sub> 3   0 <sub>2</sub> 2   44,290   44,278   7   705,111   R <sub>1</sub> 11   08,073   09,167   8   955,00   P <sub>1</sub> 5   P <sub>2</sub> 2   44,290   44,278   7   66,974   R <sub>1</sub> 10   R <sub>2</sub> 10   R <sub></sub>	00.075	1 00	/ ///	i		~3,	37.021	~		ļ j	1 1	1,110
07,168   3   967,12   R,0   77,197   1   966,696   R,0   77,197   1   966,696   R,0   77,197   1   966,696   R,0   77,197   1   966,696   R,0   77,197   1   961,17   78,14   79,113   77,197   77,198	07-079	6	967.77	1	)	R,2	39.879		731.27	R.14	1 1	
07.191 1 966.96 R <sub>1</sub> 0 R <sub>2</sub> 1 Q <sub>5</sub> 6 40.56e 2 726.31 R <sub>1</sub> 13 R <sub>2</sub> 13 O7.305 5 966.16 R <sub>1</sub> 0 Q <sub>5</sub> 6 40.599 1 726.11 T 222.20 R <sub>1</sub> 13 O7.987 1 961.17 Q <sub>2</sub> 3 41.147 1 722.20 R <sub>1</sub> 13 O7.987 1 961.17 Q <sub>2</sub> 3 41.147 1 722.20 R <sub>1</sub> 13 O7.987 1 961.17 Q <sub>2</sub> 3 41.1487 1 77.23.18 R <sub>1</sub> 13 Q <sub>2</sub> 3 41.1897 4 716.84 P <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.40 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 42.400 4 713.25 R <sub>1</sub> 12 Q <sub>2</sub> 4 43.418 Q <sub>2</sub> 4 43.418 Q <sub>2</sub> 4 43.418 Q <sub>2</sub> 4 43.418 Q <sub>2</sub> 4 43.418 Q <sub>2</sub> 4 43.418 Q <sub>2</sub> 4 43.418 Q <sub>2</sub> 4 43.418 Q <sub>2</sub> 4 44.418 Q <sub>2</sub> 4 44.418	07.168	] 3	967.12	R <sub>i</sub> 0			39.930	1	730.90		1 1	
07, 300   5   966, 16	07.191	1	966.96	R <sub>1</sub> 0	ĺ				726.33		R,13	
07, 384   2   965, 55   Q <sub>5</sub> 6   41, 147   1   722, 20   R <sub>1</sub> 13   Q <sub>7</sub> 5   Q <sub>7</sub>	07.300		966.16	, i	R <sub>2</sub> 1		40.599	1	726.11		R <sub>2</sub> 13	
07.987   1   961.17   08.020   4   960.93   08.020   4   960.93   08.175   5   959.80   08.175   5   959.80   08.175   5   959.80   08.175   5   959.80   08.175   5   959.80   08.175   6   959.19   08.616   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   09.102   6   953.60   09.146   6   952.74   09.167   8c   952.75   09.167   8c   952.59   09.167   8c   950.82   09.148   09.148   950.82   09.148   09.148   950.82   09.148	07.384	2	965.55	1		Q <sub>3</sub> 6	41.147	1	722.20	R <sub>1</sub> 13		
07.987   1   961.17   08.020   4   960.93   08.020   4   960.93   08.175   5   959.80   08.175   5   959.80   08.175   5   959.80   08.175   5   959.80   08.175   5   959.80   08.175   6   959.19   08.616   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   08.617   6   956.12   09.102   6   953.60   09.146   6   952.74   09.167   8c   952.75   09.167   8c   952.59   09.167   8c   950.82   09.148   09.148   950.82   09.148   09.148   950.82   09.148		١.	062.43		1	م د	41 102	} _	771 00		i 1	
08.020   4   960.93   P <sub>1</sub> 1   Q <sub>2</sub> 2   Q <sub>3</sub> 4   41.899   4   716.84   713.25   R <sub>1</sub> 12				1		(C)2				K113	l!	R,12
06.140   3   960.05   Q <sub>1</sub> 2   Q <sub>2</sub> 4   42.353   4   713.35   R <sub>1</sub> 12   R <sub>2</sub> 11   Q <sub>3</sub> 1   Q <sub>3</sub> 2   Q <sub>3</sub> 4   42.400   4   713.25   R <sub>1</sub> 12   R <sub>2</sub> 11   Q <sub>3</sub> 1   Q <sub>3</sub> 2   Q <sub>3</sub> 4				_ ,	1422	1				•	K,14	
08.175   5   959.80				P <sub>1</sub> 1	١,,						K212	
08, 259 6 959, 19 08, 365 6 958, 42 P <sub>1</sub> 2 O <sub>2</sub> 1				1	\Q_22	~4	12.333				1 1	
08. 365   6   958. 42   P <sub>1</sub> 2   Q <sub>3</sub> 3   43.118   5   708.13   R <sub>1</sub> 11   R <sub>2</sub> 11   R <sub>2</sub> 11   08.671   6   956.19   P <sub>1</sub> 3   Q <sub>3</sub> 2   43.541   7   705.11   R <sub>1</sub> 11   R <sub>2</sub> 1	08.175	1	737.00			145*	12.400	¹	113.23	Rill		
08.365   6   957.64   P <sub>1</sub> 2   Q <sub>3</sub> 3   43.118   5   708.13   R <sub>1</sub> 11   R <sub>2</sub>	08.259	6	959.19		0,1	İ	42.502	5	712.53			R,11
08, 472   6				P.Z	~*-					1	R.11	3 - 1
08.671   6				- 1-		0.3				i	Raiil	
08.697   8   956.00   P <sub>1</sub> 3   C <sub>3</sub> 2   43.541   7   705.11   R <sub>1</sub> 11   C <sub>3</sub> 2   C <sub>3</sub> 2   43.541   7   705.11   R <sub>1</sub> 11   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   43.541   7   705.11   R <sub>1</sub> 11   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C <sub>3</sub> 2   C		6		2,3						R.11		
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09,056   6   953,06   09,146   6   952,74   P <sub>1</sub> 5   P <sub>2</sub> 2   P <sub>1</sub> 5   P <sub>2</sub> 2   P <sub>3</sub> 5   P <sub>4</sub> 5		i	1		1			1		1 .		
09,056   6   953,06   09,146   6   952,74   P <sub>1</sub> 5   P <sub>2</sub> 2   P <sub>1</sub> 5   P <sub>2</sub> 2   P <sub>3</sub> 5   P <sub>4</sub> 5				P <sub>1</sub> 4						1	!!	R,10
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09.167   8c   952.59   P <sub>1</sub> 5   44.623   6   697.40   R <sub>1</sub> 10				l	P <sub>2</sub> 2					l	12,10	
09.228   3   952.15   P <sub>1</sub> 12   09.318   7   951.49   P <sub>1</sub> 6   951.33   P <sub>1</sub> 6   951.33   P <sub>1</sub> 6   951.33   P <sub>1</sub> 6   951.33   P <sub>1</sub> 6   951.33   P <sub>1</sub> 6   951.33   P <sub>1</sub> 6   950.82   P <sub>1</sub> 11   P <sub>2</sub> 3   P <sub>3</sub> 13   45.597   6   690.46   R <sub>1</sub> 9   R <sub>2</sub> 9   P <sub>2</sub> 9   P <sub>2</sub> 10   P <sub>2</sub> 10   P <sub>2</sub> 10   P <sub>2</sub> 10   P <sub>2</sub> 10   P <sub>2</sub> 10   P <sub>3</sub> 10				P <sub>1</sub> 5	1						1 1	
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51.453 51.531 51.613 51.636 51.810	1 10 9 9	643.79 648.24 647.66 647.49 646.26	R <sub>i</sub> 1	Ω <sub>2</sub> 7 R <sub>2</sub> 2	R <sub>3</sub> 2		<del>*************************************</del>					1-4	
51.890 52.123 52.146 52.271 52.328	3 10 10c 2 3	645.69 644.03 643.87 642.98 642.58	R <sub>i</sub> o R <sub>i</sub> o	C <sub>2</sub> 6  R <sub>2</sub> 1 C <sub>2</sub> 5 C <sub>2</sub> 5	Ω <sub>3</sub> 6		3956.350 56.399 56.443 55.626 26.645		6 5 3 2 4	25 268.70 368.39 268.11 266.94 266.82	R <sub>1</sub> 26 P <sub>1</sub> 41 P <sub>1</sub> 41	P <sub>2</sub> 40 P <sub>2</sub> 40	
52.446 57.573 52.622 52.695 52.827	3 9 3 2 3	641.74 640.84 640.49 639.97 839.04		024 04 04	Ω್25		56.7;7 55.819 56.945 57.266 57.971		6 5 9	265.84 265.71 264.90 262.85 258.35		R <sub>2</sub> 25 R <sub>2</sub> 25	P <sub>3</sub> 39 R <sub>2</sub> 24
52.856 52.948 53.005 53.029 53.136	5 9 9 4c 10	638.83 638.18 637.77 637.60 636.84	P <sub>t</sub> 1	Ω <sub>2</sub> 3 Ω <sub>2</sub> 2 Ω <sub>3</sub> I	Q <sub>3</sub> 4		58.191 58.425 53.494 58.755 56.803		1 1 2 6 8	256.95 255.46 255.01 253.35 253.04	R <sub>1</sub> 25 R <sub>1</sub> 25		
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53.976	10c 5 10 5c 10	632.95 632.29 631.08 630.88 630.64	P <sub>1</sub> 3	P <sub>2</sub> 2	P314		59.389 59.706 61.086 61.129 61.193		5 10 9 5 4	249.30 247.28 238.49 238.21 237.81	R <sub>1</sub> 24 R <sub>1</sub> 24 P <sub>1</sub> 39		P <sub>3</sub> 38 R <sub>3</sub> 23
54.204 54.301	6 10 6 2 19c	629:78 629:49 629:27 628:58 628:34	P <sub>1</sub> 5	P <sub>2</sub> 13	P313		61.238 61.457 61.577 61.594 61.763		5 5 8 7 6	237.52 236.12 235.36 235.23 234.17	P <sub>1</sub> 39	P <sub>2</sub> 38 R <sub>2</sub> 23 R <sub>3</sub> 23	P337
54.506	3 10b 10 10c 3	628.04 627.51 627.12 626.93 626.72	P <sub>1</sub> 11 P <sub>1</sub> 7,10 P <sub>1</sub> \$	P <sub>2</sub> 4	P312		62.01 <b>8</b> 62.072 62.317 63.340 63.397		2 10 2 5 8	232.55 232.21 230.65 224.13 223.77	R <sub>1</sub> 23 R <sub>1</sub> 23	٠	R,22
54.676	10 8 10 8 7c	626.53 625.92 625.10 624.66 624.50		P <sub>2</sub> 4 P <sub>2</sub> 11 P <sub>2</sub> 5 P <sub>3</sub> 16	P311		63.475 63.520 63.729 63.746 63.858		4 3 5 3 5	223.27 222.99 221.66 221.55 220.84	P <sub>1</sub> 38 P <sub>1</sub> 38	P <sub>2</sub> 37 P <sub>2</sub> 37 R <sub>2</sub> 22	
54.968 55.011 55.121	10 9 105 9	624.11 623.85 623.54 622.76 622.35		P <sub>2</sub> 5 P <sub>2</sub> 9 P <sub>2</sub> 7,8	P <sub>3</sub> 3 P <sub>3</sub> 10 P <sub>3</sub> 4		63,850 64,059 64,367 65,506 65,578		7 6 9 3 0	220.70 219.56 217.60 210.36 209.90	R <sub>1</sub> 22	R <sub>2</sub> 22	P336 R321

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66.000 66.051 66.090	6 2 5	207.21 206.89 206.64		R <sub>2</sub> 21		R <sub>3</sub> 40	74.727 74.787 75.359		10 7	151.90 151.50			R316	
66.286 66.457 66.585	6 3 9	205.40 204.31 203.50		R <sub>2</sub> 21	P,35 R,20		75.406 75.650 75.694		964	147.88 147.58 146.04 145.76	R <sub>1</sub> 17 R <sub>1</sub> 17 P <sub>1</sub> 32 P <sub>1</sub> 32			
67.653 67.693 67.827 67.871	8 9 5 3	196.72 196.47 195.61 195.33	R <sub>1</sub> 21 R <sub>1</sub> 21 P <sub>1</sub> 36 P <sub>1</sub> 36				75.746 75.637 75.688 75.945		1 1 1 10	145.43 144.85 144.53 144.17		P <sub>2</sub> 31	R <sub>2</sub> 16]	
68.096 68.114 68.224 68.438	5 4 10 7	193.91 193.79 193.09		P <sub>2</sub> 35 P <sub>2</sub> 35 R <sub>2</sub> 20	7.1.		75.971 76.160 76.213		10	144.01 142.81 142.48		P <sub>2</sub> 31		
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69.424 69.474 69.645 69.707	2 4 7 8	185.47 185.15 184.08 183.68	R <sub>1</sub> 20 R <sub>1</sub> 20 R <sub>1</sub> 20			R <sub>1</sub> 41 R <sub>2</sub> 40	76.563 76.653 76.805 76.881 77.097		3 10 -1 3	140.26 139.69 138.73 138.25 136.89	R <sub>1</sub> 16		R <sub>3</sub> 15	R <sub>3</sub> 36 R <sub>2</sub> 37
69.738 69.778 69.896 69.939	2 6 4 6	183.48 183.23 182.49 182.21	R <sub>1</sub> 20 P <sub>1</sub> 35 P <sub>1</sub> 35			12,39	77.145 77.420 77.463 77.735		7 4 7 5	136.58 134.85 134.60 132.86	R <sub>1</sub> 16 P <sub>1</sub> 31 P <sub>1</sub> 31	7.20		
70.171 70.189 70.273	6 9	180.73 180.62 180.69	-	P <sub>2</sub> 34 P <sub>2</sub> 34 R <sub>2</sub> 19			77.754 - 77.820 77.847		7 8 6	132.74 132.31 132.14		P <sub>2</sub> 30 P <sub>2</sub> 30 R <sub>2</sub> 15 R <sub>2</sub> 15		
	8 8 10	179.95 178.52 176.53	٠.	R <sub>2</sub> 19	P333 R318		78.105 78.454 78.762	14	7	130.49 128.30 126.36	R <sub>1</sub> 15		P <sub>2</sub> 29 R <sub>5</sub> 14	
71.656 71.701 71.887 71.931 72.172	6 8 5 3 7	171.32 171.03 169.80 169.58 168.05	R <sub>1</sub> 19 R <sub>1</sub> 19 P <sub>1</sub> 34 P <sub>1</sub> 34	P233			78.811 79.116 79.156 79.440 79.457	2	9 7 5 8 7c	126.06 124.13 123.88 122.09 121.98	R <sub>1</sub> 15 P <sub>1</sub> 30 P <sub>1</sub> 30	P <sub>1</sub> 29 P <sub>2</sub> 29		
72.190 72.265 72.289 72.523 72.764	4 6 9 8 2	167,94 167,47 167,31 165,83 164,30		P <sub>2</sub> 33 R <sub>2</sub> 18 R <sub>2</sub> 18	P,32	R <sub>1</sub> 40	79.519 79.549 79.745 79.793 79.818	1	7 9 2 2 10	121.59 121.40 120.16 119.86 119.70		R <sub>2</sub> 14 R <sub>2</sub> 14	P,28	R <sub>1</sub> 38 R <sub>1</sub> 38
72.806 72.842 73.020 73.344 73.542	1 10 3 3	164.04 163.81 162.68 160.63 159.38	R,13		R <sub>3</sub> 17	R <sub>1</sub> 40 R <sub>2</sub> 39 R <sub>3</sub> 38	80.019 80.173 80.351 80.399 80.738		3 10 10 7 6	118.43 117.45 116.34 116.04	R <sub>1</sub> 14 R <sub>1</sub> 14		R,13	R <sub>2</sub> 37 R <sub>3</sub> 36
73.590 73.906 73.849 74.099 74.117	74647	159.07 157.70 157.43 155.85 155.73	R <sub>1</sub> 18 P <sub>1</sub> 33 P <sub>1</sub> 33	P <sub>2</sub> 32 P <sub>2</sub> 32			80.781 80.973 81.069 81.089 61.148	2	8 3 3 8c 8	113.90 113.62 112.41 111.81 111.68 111.30	P <sub>1</sub> 29	P <sub>1</sub> 28 P <sub>1</sub> 28 R <sub>2</sub> 13		

λ	I	L			Class:	dicati '	on 0-3	λ	1	I.			Class!	ficati I	од 0-3
3981.177 81.457	lc	-	25 111.11 109,36		R <sub>2</sub> 13	P,27		3988.207 88.284	8 9	777	25 066.86 066.38	R <sub>1</sub> S	R <sub>2</sub> 8		
81.862	1	9	106.81	R.13		,	1	88.331	8	5	066.08	R,8			ŀ
81.879		9c	106.73			R,12		83.500	l	3	065.02		P <sub>2</sub> 23		ŀ
81.914	4	9	105,48	<b>X</b> <sub>1</sub> 13			1	88.525		IOc.	064.86			PyZZ	l
82.283		8	104.15	P,28				88.886	1	7	062.60	P <sub>1</sub> 23			ł
82.325		5	103.89	P,28			1	88.920		19	062.38	P,23			1
32.628		8	101.78	1.	P227			89.055	10	lo	061.53	•	1	R,7	
82.646	١. '	7c	101.86	1	P <sub>2</sub> 27			89.303			059,98		P <sub>1</sub> 22		ŀ
82.704	1	50	101.50		R <sub>2</sub> 12		1	89.349	9	17	059.69	R <sub>2</sub> 7	R <sub>2</sub> 7		
82.734	3	8c	101.31	1	R212		1	67, 386	ın	8	059.45	R,7	R <sub>2</sub> 7		
83.024		10	099.48	1 .		P,26	! I	89.651	"	0	057.77	~1.		1	R,
83.134		2	098.79		ł	•	R,37	89.700		2	057.48			1 1	Rı
83,176		3	098.52	1	•		R,37	89.723		9с	057.24			P,21	•
83.297	4	9	097.75	R <sub>1</sub> 12	1		1	89.756		6	057.13	P <sub>1</sub> 22	1	1 1	
83,351	4	7	097.42	8.12		1	]	89.924	I	6	056.08	p.22	1		l
		2	097.06	R <sub>2</sub> 12		1	R <sub>2</sub> 36	89.947	,	10	055.62	P,22	1		R,
83.435		0	096.29	•		R,11	10350	90.056	1.	17	055.25	P122	1	1 1	
83.754		7	094.88	P,27			R <sub>2</sub> 35	90.280	10	8	053.84	ì '- '	Ì	3,6	
83.795		8	094.62	P127				90.324		6	053.56	R <sub>1</sub> 6	l		1
04 114		,	202 62	<b>,</b>									Į .	1	
84.113 84.130	نہا	7 9c	092.62	1	P <sub>2</sub> 26		ļ	90.364		5	053.31	R <sub>2</sub> 6		( )	X,
84.183	5	8	092.17	1	P <sub>2</sub> 26			90.406 90.450		14.	053.05	}	P <sub>2</sub> 21		
84.213	3		091.98	1	Rill			90.481		6	052.58	ľ	R <sub>1</sub> 6		•
	04		090.12			P,25	1	90.839		10	050.33		""	P,20	1
		_	40- 4-				1		ľ						
	3	7	089.16	R <sub>1</sub> 11	1			90.992	-	7	049.37	P <sub>1</sub> 21			•
84.711 84.948	7	20	088.85	R <sub>2</sub> 11				91.028		?	049.14	P <sub>1</sub> 21	l	1	l
85.144	٦	9	086.13	P,26		R <sub>2</sub> 10	E 1	91.240 91.276		5	047.81	R <sub>1</sub> 5	1	1	
85.183		6	085.88	F126	1			91.427		9	046.64	R <sub>2</sub> 5	ļ	R,5	1
									1	(					1
85.518 85.535		8	083.78	i	P <sub>2</sub> 25		, [	91.443		96	046.54	l	P,20		l
85.589	4	8c	083.67		P.25			91.475 91.499		5	046.34		R <sub>1</sub> 5		1
85,621		7	083.13	1	R <sub>2</sub> 10 R <sub>2</sub> 10		1	91.876		10	043.82	l	R <sub>2</sub> 5	P,19	ı
85.922		16	081.23		]	P,24		91.929	ľ	9	043.49	P,20		* 3* 7	1
		L.	l .					1	l	ľ	]	1		]	
85.945		iûc	01.10	N,10				91.966		17	043.26	P120	1	1	1
85.993 86.390	8	10	080.78 078.29	R,10		R,9	i i	92.079 92.116		6	042.55 C42.32	R <sub>1</sub> 4	1		4
86.439	٦	2	077.98	٠ ا		~37	R,35	92.118		9	040.62	R <sub>1</sub> 4	P,19		3
86.457	1 r	7	077.87	P <sub>1</sub> 25			3.4-3	92.419		ź	040.42		R14	1	
04 ***		_	į.	٠ ·				}	1	١.		ŀ	1	1	•
86.508 86.740		9	077.55	P <sub>1</sub> 25			اء د د ا	92.443	1100		040.26	l	R <sub>2</sub> 4		l
86.758		2c	075.97	1		l	R <sub>2</sub> 35	92.499 92.694	100	8 2	039.91		Ω,9	R,4	l
86.848		5	075.41	1	P,24			92.792	1	7	038.08	P,19	ì	1	1
86.868		7c	075.28	!	P,24			92.837		9	037.80	P.19	l	P,18	1
96 010	۱. ا	<b> </b>	074 04		1			02.55				1	l	اً	
86.919 86.950		7	074.96 074.76	1	R.9		[ [	92.852 92.882		5	037.70	R <sub>1</sub> 3	1	•	Ĭ
87.093		4	073,87	i	R <sub>2</sub> 9		R <sub>3</sub> 34	92.161		10	037.31	R <sub>1</sub> 3	P:18	Q38	ı
87.152	6	6	073.50	R <sub>1</sub> 9				92.195	10	8	035.55	ŀ	Ω,8	777	R,
87.200	4	8	073.19	R19	1			93.292	101	6 (	034.94	1	R,3	1	l '''
87.265		10	972.78	1		,		03 300	1	1	024 04		1		•
87.759	9	10	069.68	P,24	1	P <sub>3</sub> 23 R <sub>3</sub> 8		93.308 93.430		4c	034.84	l	R,3	1	ı
88.038		8	067.93	1 - 1 - 1	P,23	,,•	1	93.491		6	033.69	ı	P218	R,3	l
00.030					, - ,				,			z .	I .	14034	-
88.126		6	067.37	j	P,23		1	93.512	ł	6	033.56	1	P.18	1	l

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. 7	1	I <sub>2</sub>			1	Clas	ificztu	0-3	)	
3993.55 93.57 93.58 93.61 93.72	7 9	8 6 10	25 033.27 033.15 033.09 032.93 032.24	P, 1 R, 2 P, 1	8	P <sub>3</sub> 1	,			
93.959 94.014 94.070 94.090	10	2 10 10c 2	030.76 030.44 030.07 029.98 029.23		Q <sub>2</sub> 7 P <sub>2</sub> 1 R <sub>2</sub> 2	7 027				
94.225 94.286 94.322 94.398 94.487	2	4c 7 9 4	029.09 028.71 028.49 028.01 027.45	R <sub>t</sub> 1 P <sub>1</sub> 1 P <sub>1</sub> 1	7 7 Q <sub>2</sub> 6 Q <sub>2</sub> 6	R <sub>2</sub> 2				
94.538 94.635 94.792 94.812 94.846	1 6 10 2	10 2 10 10c	027.13 026.53 025.54 025.42 025.20	R10	R <sub>2</sub> 1 P <sub>2</sub> 16 Q <sub>2</sub> 5	P <sub>3</sub> 16 Q <sub>3</sub> 6				
94.918 94.953 95.058 95.179 95.233	1 1 bd 8 4	9 7 3 3	024.75 024.52 023.88 023.31 022.78	P <sub>t</sub> 16	Ω <sub>2</sub> 5	Q <sub>3</sub> 5				
95.245 95.265 95.274 95.446 95.473	3 3 3c	2 10c 9 7	. 022.71 022.58 022.52 021.45 021.27	P <sub>1</sub> 15	Q <sub>2</sub> 4	P <sub>3</sub> 15				·
 95.509 95.535 95.567 95.643 95.773	3 5 10 10	9 .	021.05 020.89 020.69 020.21 019.40	P <sub>1</sub> 15	Q <sub>2</sub> 3 Q <sub>2</sub> 3 Q <sub>2</sub> 2	Q <sub>3</sub> 4				
95.822 95.917 95.962 95.992 96.021	3	2 4 0 3 0	019.08 018.50 018.21 018.02 017.84	P <sub>1</sub> 14 P <sub>2</sub> 14	· Q <sub>2</sub> 1	P <sub>3</sub> 14	R <sub>1</sub> 33 R <sub>1</sub> 33			
96.095 96.171 96.304 96.364 96.399	10 10 3	2 4 8 6 8	017.38 016.90 016.07 015.70 015.47	F <sub>1</sub> 2 P <sub>1</sub> 13 P <sub>1</sub> 13		Ω,2		R <sub>2</sub> 32		
96.509 96.519 96.531 96.667 96.696	- 1:	0 0c 5	014.79 014.73 014.65 013.30 013.61	P <sub>1</sub> 3	P <sub>2</sub> 13	P <sub>1</sub> 13			R <sub>9</sub> 31	
96.731 96.801 96.855 96.895 96.933	5 8 0b 6 2 1 9 3		013.40 012.96 012.62 012.37 012.13	P <sub>1</sub> 12 P <sub>1</sub> 4	P <sub>2</sub> 2 P <sub>2</sub> 12					

	λ	I <sub>2</sub>		C1	0-3	tion	,	12		CI	assifica 0-3	tion
10.345   1   928.49   10.387   5   928.23   R <sub>1</sub> 28   10.428   2   927.98   R <sub>1</sub> 28   10.428   2   927.98   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   12.596   2   92.17   R <sub>2</sub> 27   R <sub>2</sub> 26   27.592   2   821.74   P <sub>1</sub> 36   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub>			ļ	ļ		,	<b> </b>	12		ļ	<del></del>	<b></b>
10.345   1   928.49   10.387   5   928.23   R <sub>1</sub> 28   10.428   2   927.98   R <sub>1</sub> 28   10.428   2   927.98   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   2   927.99   R <sub>1</sub> 28   10.428   12.596   2   92.17   R <sub>2</sub> 27   R <sub>2</sub> 26   27.592   2   821.74   P <sub>1</sub> 36   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub> 20   R <sub>2</sub>	4010.307	2	24 928.73	P.43	ł	1	4027.438	5	24 822.69	R.21	l	i
10.745 6 3 9725.94 10.786 6 7925.95 11.202 7925.91 11.202 7925.17 12.786 2 2 912.24 P.42 13.003 1 911.98 P.42	10.345	1		1	1		27.483	7		R.21	1	1
10.745 6 3 9725.94 10.786 6 7925.95 11.202 7925.91 11.202 7925.17 12.786 2 2 912.24 P.42 13.003 1 911.98 P.42	10.387	1 5	928.23	R,28	!	1 1	27.553	4		P.36	ł	Ì
10.745	10.428	2	927.98	R,28	{	1 1		2		P.36	1	l
10.756		2	927.70	١.		1 1	27.805	5		}	P.25	l
10,780   6   925.79   11,202   7   923.17   12,962   2   912.24   912.24   9142   7   92.17   12,962   2   912.24   91.98   91.18		1	Į	1		1 1	1	į	1	1	1 -	l
11.402				ł		P,41			819.38	ł	R <sub>2</sub> 20	1
11,402			925.79	•	R <sub>1</sub> 27				819.26	ĺ	R,20	[
13.003					<b>!</b> .	R,26				<b>!</b>	1	P,34
13.051   3					}			, -		}	1	R,19
13.051   3	13.003	1	911.98	P <sub>1</sub> 42	i	1	29.559	7	809.56	R <sub>1</sub> 20	1	
13.091	12 051		011 60	, ,,	)		20 (12	١.,		l	ł	1
13.134   1   911.17   P <sub>2</sub> 41   29.715   2   808.67   P <sub>3</sub> 35   13.188   1   910.95   P <sub>2</sub> 41   29.715   2   808.67   P <sub>3</sub> 35   13.188   1   910.83   P <sub>2</sub> 41   29.715   2   808.67   P <sub>3</sub> 35   P <sub>3</sub> 35   13.488   1   910.83   P <sub>2</sub> 41   P <sub>2</sub> 41   29.715   2   808.67   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 35   P <sub>3</sub> 3				R161	1 :	1 1				RIZD	į	i i
13,169				KJEI	5.11	1 1				1	ł	
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13,890   7   906.48   15,583   1   895.98   16,593   1   895.98   17,26   15,636   7   895.65   17,26   15,636   7   895.65   17,26   15,636   7   895.65   17,26   15,636   7   895.65   17,26   15,636   7   896.73   15,789   1   894.57   15,810   3c   894.57   16,065   6   892.79   16,093   4   892.81   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   870.23   16,100   16,005   6   16,005   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   16,005   6	13.100	•	710.03			} }	27.720	1	001.30	i	l	1
13,890   7   906.48   15,583   1   895.98   16,593   1   895.98   17,26   15,636   7   895.65   17,26   15,636   7   895.65   17,26   15,636   7   895.65   17,26   15,636   7   895.65   17,26   15,636   7   896.73   15,789   1   894.57   15,810   3c   894.57   16,065   6   892.79   16,093   4   892.81   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   890.23   16,510   8   870.23   16,100   16,005   6   16,005   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   6   16,005   16,005   6	13.466	8	909.11		R.26	P.40	29.982	5	807.02	ł	P.14	į .
15.583   1 895.98   P <sub>4</sub> 41   30.080   1 806.42   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 19   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10   R <sub>3</sub> 10					1	R.25				i	1 22-4	Į
15,080   3   893,37   R <sub>1</sub> 26   30,147   5c   806,01   R <sub>3</sub> 19     15,789   1   894,70   P <sub>3</sub> 40   30,000   5   805,06   R <sub>1</sub> 19     16,093   4   892,81   R <sub>2</sub> 5   R <sub>3</sub> 25   P <sub>3</sub> 39   31,668   7   796,65   R <sub>1</sub> 19     16,510   8   890,23   R <sub>2</sub> 25   P <sub>3</sub> 39   31,608   7   796,65   R <sub>1</sub> 19     18,148   4c   880,03   R <sub>1</sub> 25   P <sub>3</sub> 40   32,010   5   794,17     18,190   6   879,82   R <sub>1</sub> 25   P <sub>3</sub> 39   32,213   5   793,30   R <sub>1</sub> 18     18,190   6   878,82   R <sub>1</sub> 25   R <sub>2</sub> 24   R <sub>2</sub> 24   R <sub>2</sub> 24   R <sub>2</sub> 24   R <sub>2</sub> 24   R <sub>2</sub> 24   R <sub>2</sub> 25   R <sub>3</sub> 31,596   8   784,79     20,588   7   864,93   R <sub>1</sub> 24   P <sub>1</sub> 39   R <sub>2</sub> 24   R <sub>2</sub> 23   33,810   3   783,48   R <sub>1</sub> 33     21,052   7   862,11   R <sub>2</sub> 3   R <sub>2</sub> 23   R <sub>2</sub> 33   R <sub>2</sub> 34   R <sub>2</sub> 34   R <sub>2</sub> 34   R <sub>2</sub> 35   R <sub>2</sub> 35   R <sub>2</sub> 35   R <sub>2</sub> 35   R <sub>2</sub> 35   R <sub>2</sub> 35   R <sub>2</sub> 35   R <sub>2</sub> 35   R <sub>2</sub> 35   R <sub>2</sub> 35   R <sub>2</sub>				P.41	1	,				1	İ	
15,880   3   893,37   R <sub>1</sub> 26   30,147   5c   806,01   R <sub>3</sub> 19     15,789   1   894,70   P <sub>3</sub> 40   R <sub>3</sub> 25   P <sub>3</sub> 40   30,300   5   805,06   802,81   R <sub>1</sub> 19     16,093   4   892,81   R <sub>2</sub> 5   R <sub>3</sub> 25   P <sub>3</sub> 39   31,668   7   796,65   R <sub>1</sub> 19     16,10   8   890,23   R <sub>2</sub> 25   P <sub>3</sub> 39   31,668   7   796,65   R <sub>1</sub> 19     18,148   4c   880,03   R <sub>1</sub> 25   P <sub>3</sub> 40   32,010   5   794,17   795,83   P <sub>1</sub> 34     18,190   6   879,82   R <sub>1</sub> 25   P <sub>3</sub> 39   R <sub>2</sub> 24   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R <sub>2</sub> 21   R		7		R.26	P.411	1				ì	R.10	1
15,789	15.680	3	895.37	R,26	1	1	30.147	5c		ļ		1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	f			-		1	1 1		•	1		,
16.065						{		5	805.06	1	}	P,33
16.093					P240		30.666	) в		]	}	R,18
10.093					R <sub>2</sub> 25	1	31.623			R,19	1	1
18.131       3       880.19       P140       P140       31.840       Z       795.59       P34       P333       R18.190       6       879.82       R125       P140       32.070       5       794.17       733       R216       R216       R216       R216       R210       R224       R223       R223       R223       R223       R223       R223       R223       R224       R223       R223       R224       R223       R223       R23,596       R24,799.11       R216       R210         18.656       4       876.94       R24       P139       R223       R33.596       R784.79       R216       R210         19.051       8       874.49       R24       P139       R23       R33.596       R784.79       R16       R210       R223       R33.602       R784.52       R18       R210       R23       R33.810       R783.23       R33.48       R18       R18       R18       R18       R18       R18       R18       R18       R23       R33.810       R373.48       R17       R217       R217 <td></td> <td></td> <td></td> <td></td> <td>R<sub>2</sub>25</td> <td>P<sub>3</sub>39</td> <td></td> <td></td> <td></td> <td>R,19</td> <td>)</td> <td></td>					R <sub>2</sub> 25	P <sub>3</sub> 39				R,19	)	
18.148	16.510	8	890.23			R <sub>3</sub> 24	31,802	4	795.83	P <sub>1</sub> 34	)	
18.148	10 121		990 30	D 40		]	3. 040	,	705 60		1	
18.190				P 25	D 401	}				17,34		1
18.354   3				R123	21301	1				ł	233	
18.607       6       £77.24       R <sub>2</sub> 24       32.399       6       792.15       R <sub>2</sub> 16         18.656       4       876.94       1       P <sub>3</sub> 38       32.764       8       784.79       R <sub>4</sub> 18         20.588       7       864.93       R <sub>1</sub> 24       P <sub>1</sub> 39       33.596       8       784.79       R <sub>4</sub> 18         20.635       6       564.69       R <sub>1</sub> 24       P <sub>1</sub> 39       33.642       3       784.52       Y <sub>1</sub> 18         20.637       4       865.44       P <sub>3</sub> 38       33.850       4       783.48       Y <sub>3</sub> 33         21.052       7       862.11       R <sub>2</sub> 23       R <sub>2</sub> 23       R <sub>2</sub> 3       R <sub>2</sub> 17				Kļas	p.30						Mais	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					R-24	ł					Karo	Pg32
19.051	1			-				Ť	1,0125		[ .	1-gJ2
19.051		4			1	P,38	32.764	8	789.91	•	(	R <sub>2</sub> 17
20.588   7							33.596	8		R.18	l	
20.635   6   864.69   R <sub>1</sub> 24   P <sub>1</sub> 39   33.810   3   783.48   F <sub>1</sub> 33   P <sub>2</sub> 33					P,39]		33.642	3				
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23.234	23.038		849.84	P,38		1				R.17		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				- 1	P <sub>2</sub> 37	1	35.742	5	771.62	P,32	}	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				į	ね,22		35.779	3	771.39			
23.919   8	23.451	7c	847.29		R222		35.026	6	769.88		P231	
23.919   8	22 24. 1	. 1	046 77		1	224	1 ,, ,, 1	, I	2/6 **			
25.231 7 836.30 R <sub>1</sub> 22 36.365 7 767.80 36.365 25.275 4 836.03 R <sub>1</sub> 22 36.685 1 765.84 25.312 2 835.80 P <sub>1</sub> 37 36.685 1 765.84 25.312 2 835.80 P <sub>1</sub> 37 36.742 9 765.48 25.743 7 833.14 P <sub>2</sub> 21 37.361 4 761.97 R <sub>1</sub> 16 R <sub>1</sub> 25.743 7 833.14 P <sub>2</sub> 21 37.361 4 761.69 R <sub>1</sub> 16 R <sub>2</sub> 21 37.361 4 761.69 R <sub>1</sub> 16 R <sub>2</sub> 21 37.361 5 760.03 P <sub>1</sub> 31 25.873 5 832.34 P <sub>3</sub> 35 37.631 5 760.03 P <sub>1</sub> 31				1	1	200			769,14			1
25.275 4 836.03 R <sub>1</sub> 22 835.80 P <sub>1</sub> 37 36.685 1 765.84 755.48 25.312 2 835.80 P <sub>1</sub> 37 36.742 9 765.48 25.565 5 834.24 P <sub>2</sub> 36 37.314 7 761.97 R <sub>1</sub> 16 25.743 7 833.14 R <sub>2</sub> 21 37.361 4 761.69 R <sub>1</sub> 16 25.762 6c 833.03 R <sub>2</sub> 21 37.594 3 760.26 P <sub>1</sub> 31 25.873 5 832.34 P <sub>3</sub> 35 37.631 5 760.03 P <sub>1</sub> 31				R.22	}	wer					K310	20.20
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25.565 5 834.24 P <sub>2</sub> 36 37,314 7 761.97 R <sub>1</sub> 16 25.762 6c 833.03 R <sub>2</sub> 21 37.594 3 760.26 P <sub>1</sub> 31 25.873 5 832.34 P <sub>3</sub> 35 37.631 5 760.03 P <sub>1</sub> 31				P,37	1							R,15
25.743 7 833.14 R <sub>2</sub> 21 37.361 4 761.69 R <sub>1</sub> 16 25.762 6c 833.03 R <sub>2</sub> 21 37.594 3 760.26 P <sub>1</sub> 31 25.873 5 832.34 P <sub>3</sub> 35 37.631 5 760.03 P <sub>1</sub> 31	. [	1		. 1	Ì	1	1	'	2, 10			,
25.743 7 833.14 P <sub>.2</sub> 21 37.361 4 761.69 R <sub>1</sub> 16 25.762 6c 833.03 R <sub>2</sub> 21 37.594 3 760.26 P <sub>.3</sub> 31 25.873 5 832.34 P <sub>.3</sub> 35 37.631 5 760.03 P <sub>.3</sub> 31				- 1	P <sub>2</sub> :6	j	37.314	7	761.97	R,16	1	
25.762 6c 833.03 R <sub>2</sub> 21 37.594 3 760.26 P <sub>1</sub> 31 25.873 5 832.34 P <sub>3</sub> 35 37.631 5 760.03 P <sub>1</sub> 31	25.743			}	P.21	. !			761.69	R,16		
26,244 8 830.05 P <sub>3</sub> 35 37,631 5 760.03 P <sub>3</sub> 31				j	R <sub>2</sub> 21	1				P <sub>1</sub> 31		
				}	]	P335				F131		
-	20.275	• 1	830.05	1	1	143CO	37.893	٥	758.43	1	P330	

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4038.003 38.026 38.33 38.623 39.054		7 6c 7 8 5	24 757.75 757.61 756.34 753.95 751.31	R <sub>2</sub> 15 R <sub>2</sub> 15	P <sub>3</sub> 29 R <sub>3</sub> 14	4047.091 47.421 47.500 47.532 47.638	1 6 4 2	7 8 6 4	24 702.16 700.14 699.66 699.46 698.81	P <sub>1</sub> 25	P <sub>2</sub> 24 R <sub>2</sub> 9 R <sub>3</sub> 9	
39.102 39.369 39.405 39.672 39.761	1 0 1d	8 6 3 7 4	751.01 749.38 749.16 747.52 746.85	R <sub>1</sub> 15 P <sub>1</sub> 30 P <sub>1</sub> 30 P <sub>2</sub> 29 R <sub>2</sub> 14		47.800 47.822 47.870 48.306 48.358	5 8 8 8	\$ 7c 7 7	697.83 697.69 697.40 694.74 694.42	K <sub>1</sub> 9 R <sub>1</sub> 9 P <sub>1</sub> 24		P <sub>2</sub> 23
39.809 40.024 40.417 40.716 40.762	1 2 1	7 8 9 8	746.68 745.37 742.96 741.13 740.85	R <sub>2</sub> 14 R <sub>1</sub> 14 R <sub>1</sub> 14	R <sub>3</sub> 13	48.39° 48.732 48,809 48.841 48.947	5 7	4 8 4 6 2	694.22 692.14 691.67 691.48 690.83	P <sub>1</sub> 24	P <sub>2</sub> 23 R <sub>2</sub> 8 R <sub>2</sub> 8	
41.065 41.100 41.384 41.476 41.509	0 1 1c	4 6 8 8 5	738.99 738.78 737.04 736.48 736.27	P <sub>1</sub> 29 P <sub>1</sub> 29 P <sub>2</sub> 28 R <sub>3</sub> 13 R <sub>3</sub> 13		49.007 49.034 49.053 49.122 49.582	8 7 0	6 2 4 8 5	690.47 696.30 690.18 689.76 686.96	R <sub>1</sub> 8 R <sub>1</sub> 8 P <sub>1</sub> 23		P322
41.736 42.146 42.293 42.340 42.680	1 2 1 3 0	8 9 5 8 6	734.88 732.37 731.48 731.19 729.11	R <sub>1</sub> 13 R <sub>1</sub> 13 P <sub>1</sub> 28	P327 R312	49.617 49.654 49.705 49.758 49.973	9 0 0 1	7 7 2 4 8	686.75 686.52 686.21 685.89 684.58	P <sub>1</sub> 23	P <sub>2</sub> 22	R37
42.718 43.005 43.027 43.098 43.129	2 2 1c 1	4 8 4 7	728.87 727.12 726.98 726.55 726.36	P <sub>2</sub> 28 P <sub>2</sub> 27 P <sub>2</sub> 27 R <sub>2</sub> 12 R <sub>2</sub> 12	1 1	50.038 50.070 50.113 50.158 50.363	8 6 6 9 1	5 3 4 7 9	684.18 683.99 683.72 683.45 682.20	R <sub>1</sub> 7 R <sub>1</sub> 7	R <sub>2</sub> 7 R <sub>2</sub> 7	P <sub>2</sub> 21
43.211 43.368 43.795 43.842 44.218	2 0 5 2	8 10 5	725.85 724.90 722.29 722.00 719.70	R <sub>1</sub> 12 R <sub>1</sub> 12 P <sub>1</sub> 27	P <sub>3</sub> 26 R <sub>3</sub> 11	50.722 50.759 50.930 51.114 51.140	9	8 6 7 7 6	680.01 679.79 678.74 677.62 677.46	P <sub>1</sub> 22 P <sub>1</sub> 22 R <sub>1</sub> 6	P <sub>2</sub> 21	R <sub>2</sub> 6
44.255 44.426 44.560 44.645 44.675	1d 5 1 3 2	6, 8 7 4	719.48 718.43 717.61 717.09 716.91	P <sub>1</sub> 27		51.183 51.214 51.400 51.525 51.783	8 8 0 1	4 5 2 9 5	677.20 677.01 675.88 675.12 673.55	P <sub>1</sub> 6	R26 P26	P320
44.925 45.216 45.264 45.376 45.613	3 6 5	8 5 7 8 2	715,38 713,60 713,31 712,63 711,18	R,11 R,11	P <sub>3</sub> 25	51.820 51.967 52.077 52.095 52.130	14 2 8 10b	7 4 5c 7	673.32 672.43 671.76 671.65 671.44	P <sub>1</sub> 21 R <sub>1</sub> 5 R <sub>1</sub> 5		R <sub>2</sub> 5
45.677 45.71? 46.023 46.112 46.144	5	7 8 4 6	710.79 710.54 708.68 703.13 707.94	P <sub>1</sub> 26 P <sub>1</sub> 26 P <sub>1</sub> 25 R <sub>1</sub> 10 R <sub>2</sub> 10		52.190 52.203 52.252 52.280 52.612	1 10 8 1	5 7c 4 2c 9	671.07 670.99 670.69 670.52 668.50	•	P <sub>2</sub> 20 P <sub>1</sub> 20 R <sub>1</sub> 5 R <sub>1</sub> 5	P319
46.403 45.559 46.609 46.676 47.055	00 6 9 6	8 7 4 8	706.35 705.40 705.10 703.46 702.38	R <sub>1</sub> 10 R <sub>1</sub> 10 P <sub>1</sub> 25	P <sub>9</sub> 24 R <sub>3</sub> 9	52.756 52.799 52.976 53.012 53.063	1 10 8	7 5 5 3 5	667.57 667.36 666.29 666.07 665.76	P <sub>1</sub> 20 P <sub>1</sub> 20 R <sub>1</sub> 4 R <sub>1</sub> 4		

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4053.119 53.192 53.237 53.261 53.361	10	2 8 6 5c 2	24 665.42 664.97 664 70 664.55 663.94		P219 R24 R24	R34		4056.849 56.885 56.907 56.992	9 10 4	12	24 642.74 642.52 642.38 641.87 641.69	P <sub>1</sub> 14	Q <sub>2</sub> 1 P <sub>2</sub> 14	P <sub>3</sub> 14 Q <sub>3</sub> 3	
53.619 53.682 53.704 53.782 53.816	1 1 c 8	9	662.37 661.99 661.86 661.38 661.17	P <sub>1</sub> 19 P <sub>1</sub> 19 R <sub>1</sub> 3 R <sub>1</sub> 3		P318		57.202 57.251 57.422 57.450 57.506	10 16 2 7	5 3 5	640.59 640.30 639.26 639.08 638.75	P <sub>1</sub> 4 P <sub>1</sub> 13 P <sub>1</sub> 13	P <sub>2</sub> 13	O <sub>3</sub> 2	
54.084 54.096 54.114 54.143 54.161	1 9	2 6c 2	659.54 659.47 659.36 659.18 659.07		P <sub>2</sub> 18 R <sub>2</sub> 3 R <sub>2</sub> 3	Ω <sub>1</sub> 8 P <sub>2</sub> 18]		57.563 57.631 57.770 57.779	10	5 2c 7 5	638.40 638.13 637.99 637.14 636.97	P <sub>1</sub> 3 P <sub>1</sub> 12 P <sub>1</sub> 12			R,
54.270 54.471 54.493 54.522 54.530		4 4 6c 6c	658.41 657.19 657.06 656.88 656.88	P <sub>1</sub> 18 R <sub>1</sub> 2 P <sub>1</sub> 18		R <sub>3</sub> 3	R <sub>2</sub> 24	57.903 57.949 57.980 58.040 58.070	4 4 5	7 8 5	636.34 636.06 635.87 635.50 635.32	P <sub>1</sub> 4 P <sub>1</sub> 11 P <sub>1</sub> 11	P <sub>2</sub> 2 P <sub>2</sub> 12	P <sub>3</sub> 12	
54.547 54.818 54.953 54.970 54.981	7	9c 9 6c	656.73 .655.08 654.26 654.15 654,09	R <sub>1</sub> 2	P <sub>2</sub> 17 R <sub>2</sub> 2 R <sub>2</sub> 2	P <sub>3</sub> 17 Q <sub>3</sub> 7		58.134 58.237 58.266 58.302 58.346	8 9 101	4	634.94 634.31 634.13 633.92 633.65	P <sub>1</sub> 5 P <sub>1</sub> 10 P <sub>1</sub> 10 P <sub>1</sub> 6	P <sub>2</sub> 3 P <sub>2</sub> 11		R,
55.195 55.216 55.239 55.271 55.279	10c	4 4 7	652.79 652.66 652.52 652.33 652.80	R <sub>1</sub> 1 R <sub>1</sub> 1 P <sub>1</sub> 17 P <sub>1</sub> 17				58.356 58.385 58.406 58.427 58.549	10 10c 10c		633.58 633.41 533.28 633.16 632.41	P <sub>1</sub> 9 P <sub>1</sub> 7 P <sub>1</sub> 8 P <sub>1</sub> 8	P <sub>1</sub> 9]	P <sub>2</sub> 11	
55.333 55.348 55.390 55.466 55.716	4	3 9 1 9	651.95 651.86 651.60 651.14 649.62		R <sub>2</sub> 1	P,16 Q,6 P,16	1 1	58.586 58.754 58.766 58.888 58.934	10 10 10b	Юс	632.19 631.17 630.97 630.36 630.08	[P <sub>2</sub> 8	P <sub>2</sub> 10 P <sub>2</sub> 5 P <sub>2</sub> 9 P <sub>2</sub> 6 P <sub>2</sub> 7	P,10 P,3	
55.767 55.808 55.845 55.904 55.935	2	1 2 1 7 5	649.31 649.06 648.84 648.48 648.29	R <sub>1</sub> 0 R <sub>1</sub> 0 P <sub>1</sub> 16 P <sub>1</sub> 16	Q <sub>2</sub> 5 Q <sub>2</sub> 5			59.064 59.081 59.155 59.258 59.318	10 10	9 7c 5 8 6	629.29 629.19 628.74 628.11 627.75			P <sub>3</sub> 9 P <sub>3</sub> 4 P <sub>3</sub> 8 P <sub>3</sub> 5	R
55.988 56.037 56.088 56.157 56.168	1	1 2 5 9	647.97 647.67 647.36 646.94 646.87		Ω <sub>2</sub> 4	Q <sub>3</sub> 5 P <sub>3</sub> 15	R <sub>2</sub> 24	59.370 59.390 59.729 59.805 60.064	10c 2	8 8c 3 4 3	627.45 627.31 625.26 624.80 623.10			P <sub>3</sub> 7 P <sub>3</sub> 6	R,
56.220 56.383 56.397 56.487 56.518	3	0 8 7c 5 8	646.56 645.56 645.48 644.94 644.75	P <sub>1</sub> 15 P <sub>1</sub> 15	Q <sub>2</sub> 4 P <sub>2</sub> 15 P <sub>2</sub> 15 Q <sub>2</sub> 3	Ω <sub>3</sub> 4		60.153 60.231 60.494 60.544 60.976	2	2 1 3 6 4	622.69 622.21 620.62 620.31 617.69				$\mathbf{R}_{\mathbf{z}}$
56.640 56.722 56.748 56.804 56.836	5 4c 8	2 2 2 5	644.01 643.51 643.35 643.01 642.82	P <sub>i</sub> i	ΩzZ		R <sub>3</sub> 23	61.293 61.485 61.563 61.827 61.900		7 6 2	615.77 614.61 614.13 612.54 612.09				R <sub>3</sub> R <sub>1</sub>

· 1	1	I <sub>2</sub>	•	Classif	ication 4-8	
4062.279 62.350 62.444 62.563 62.635	1 2 1 2 0	7	24 609.80 609.37 608.80 608.08 607.64	O <sub>33</sub> 5 O <sub>32</sub> 5 O <sub>32</sub> 4 O <sub>32</sub> 3 O <sub>32</sub> 2	R <sub>2</sub> 21	
63.167 63.449 63.474 63.526	2	2	604.41 602.71 602.56 602.25 601.78			R <sub>2</sub> 29
63.853 63.928 63.979 64.307	2	3 3	600.27 599.81 590.50 597.52		R <sub>1</sub> 21 R <sub>1</sub> 21	
64.454 64.738 . 65.536 65.816 . 65.888		6 3	594.91 590.08 588.39 587.96		R <sub>1</sub> 20 R <sub>1</sub> 20 R <sub>1</sub> 20	R,19
66.730 66.746 67.279 67.355 67.565		6 3c 1 1 7	582.86 582.77 579.54 579.09 577.82		R <sub>2</sub> 19	R,18
67.609 67.657 67.697 67.734 67.770		1415	577.55 577.27 577.03 576.80 576.58		R <sub>1</sub> 19 R <sub>2</sub> 19	
67.810 67.851 68.658 68.674 68.727		1 3 4 6c 1	576.34 576.09 571.22 571.12 570.80		R <sub>z</sub> i 8 R <sub>z</sub> i 8	
69.036 69.193 69.301 69.395 69.436		1 1d 2 1	568.94 567.99 567.34 566.77 566.52			
69.525 69.576 70.224 70.301 70.410		10 2 2 2 2	565.98 565.68 561.76 561.29 560.64		R <sub>1</sub> 18 R <sub>1</sub> 18	R <sub>3</sub> 17
70.526 70.544 70.647 70.700 70.815		6 3c 1 2 1	559.94 559.83 559.21 558.89 558.20		R <sub>2</sub> 17 R <sub>2</sub> 17	
71.195 71.237 71.290 71.332 71.383		3 1 3 1 5	555.91 555.65 555.40 555.08 554.77		R <sub>1</sub> 17 R <sub>1</sub> 17	

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A.	1	1,	,		Class 1-8	sificat	lon 3-7		ı	I2	v		Class 4-8	ificat	ion'. 3-7
4071.428 72.321 72.347 72.956 73.008		6 4 5 6 1	24 554.50 549.12 548.96 545.29 544.98	R <sub>1</sub> 16	R <sub>2</sub> 16 R <sub>2</sub> 16	R,16		4080.280 80.308 80.352 80.773 80.731		4c 4 5 5	24 501.23 501.06 500.80 198.27 497.32	R,11	R <sub>2</sub> 11 R <sub>2</sub> 11 P <sub>2</sub> 26		
73.052 73.186 73.253 73.461 73.544		3 1 7 4 2	544.71 543.91 543.50 542,25 541.75			R <sub>2</sub> I5	R <sub>1</sub> 34 R <sub>1</sub> 34	81.415 81.464 81.508 81.563 81.586	3	6 2 3 5 5	494.42 494.12 493.86 493.53	1		R <sub>3</sub> 10	
73.932 74.046 74.079 74.397 74.456		4 6 3 0 5	539.41 538.72 538.52 536.61 536.25		R <sub>2</sub> 15 R <sub>2</sub> 15		R <sub>2</sub> 33	81.651 81.682 82.242 82.665 82.707	3	4 5 7 3 1	493.00 492.82 489.46 486.92 486.67	R <sub>1</sub> 9	R <sub>2</sub> 10 R <sub>2</sub> 10 P <sub>2</sub> 25		
74.563 74.614 74.656 75.021 75.740		3 1 5 7 5	535.61 535.30 535.05 532.85 528.52		R <sub>z</sub> 14	R <sub>3</sub> 14		82.753 82.821 82.841 82.888 82.957	4 4 0 4	7 5 7c 7	486.39 485.98 485.86 485.59 485.17	P128	R <sub>2</sub> 9	R <sub>3</sub> 9 P <sub>3</sub> 24	
75.767 76.094 76.117 76.187 76.403		4 6 4 3 1	528.36 526.39 526.26 525.84 524.53	R <sub>1</sub> 14 R <sub>1</sub> 14	R <sub>2</sub> 14			82.989 83.269 83.299 83.492 83.753	2 0 6	2 2 4 6	484.97 483.30 483.12 481.96 480.39		R <sub>2</sub> 9 P <sub>2</sub> 24		R <sub>2</sub> 3( R <sub>2</sub> 3(
76.590 76.632 76.691 76.718 77.118		2 2 3 7 2	523.41 523.16 522.80 522.64 520.23		P <b>3</b> 29	R,13 P,28	R <sub>1</sub> 33	83.830 83.842 83.972 84.033 84.146	1 3 0	6 6 2 6	479.93 479.86 479.08 478.72 478.06	P.24		P,23	
77.145 77.316 77.340 77.553 77.572		40 6 5 5	520.07 519.04 518.90 517.62 517.50	R,13	R <sub>2</sub> 13 R <sub>2</sub> 13	P,28		84.190 84.211 84.664 84.770 84.808	2 6 0 4 0	3 6c 6 2	477.79 477.65 474.94 474.30 474.07	R <sub>1</sub> 7	R <sub>2</sub> 8 R <sub>2</sub> 8 P <sub>2</sub> 23	R38	
77.605 77.651 78.131 78.355 78.733		1c 8 2 7 5	517.30 517.03 514.14 512.80 510.52	R <sub>1</sub> 13	P <sub>3</sub> 28	R,12 P,27		84.827 84.858 85.056 85.085 85.119	1 7 0	4 1 5	473.96 473.77 472.59 472.41 472.21	P <sub>1</sub> 23			
78.830 78.853 78.899 78.952 79.000		3 5 1 7 2	509.94 509.80 509.53 509.21 508.92	Ř <sub>1</sub> 12	R <sub>2</sub> 12 R <sub>3</sub> 12			85.345 85.373 85.497 85.677 85.720	63617	8 2 6 5 5	470.85 470.68 469.94 468.87 468.61	R¦6	R <sub>2</sub> 7 R <sub>2</sub> 7	P322 R37	R <sub>1</sub> 30
79.035 79.560 79.723 79.784 79.806		36532	508.71 505.56 504.58 504.21 504.08	P,27	P227		R <sub>1</sub> 32	85.760 85.774 85.803 86.068 86.131	1	7 6 3	468.37 468.29 468.11 466.53 466.15	P.22	P <sub>2</sub> 22		
79.916 79.935 80.181 80.226 80.255	1	2 5c 5 4	503.42 503.30 501.83 501.56 501.38			R311 P326	R <sub>2</sub> 31	86.228 86.265 86.425 86.455 86.455	9 4 6	5 2 1 8	465.57 465.35 464.39 464.21 464.15		R <sub>2</sub> 6 R <sub>2</sub> 6	P,21	R <sub>2</sub> 29 R <sub>2</sub> 29

λ	1	I <sub>2</sub>	,		Class 4-8	ificat	on 3-7	λ	í	I <sub>2</sub>	v		Class 4-8	ificati	05  3-7
4086.599 86.638 86.677 86.721 36.798	5 1 7 7	2 1 4 6 7	24 463.34 463.11 462.88 462.61 462.15	1 I		R <sub>3</sub> 6	R,28	4090.646 90,693 90,721 90,769 90,858	6	7 1 4 2 3	24 439.14 438.86 438.70 438.40 437.88	P <sub>1</sub> 16	R <sub>2</sub> 1 Q <sub>2</sub> 5 Q <sub>2</sub> 5	R <sub>2</sub> 2	
86.812 87.004 87.027 87.068 87.172		9c 4 2c 5	460.91	P,21	P <sub>2</sub> 21			90.966 91.912 91.057 91.153 91.194	6	7 4 8 4 1	437, 23 436, 95 436, 69 436, 12 435, 87	P <sub>1</sub> 1 P <sub>1</sub> 15	P <sub>2</sub> 16 (P <sub>3</sub> 16 Q <sub>2</sub> 4 Q <sub>2</sub> 4	Ω <sub>3</sub> 6	
87.408 87.430 87.457 87.484 87.520	7 3 5	3 5c 1 8	458.50 458.37 458.21 458.04 457.82	R <sub>1</sub> 4	R <sub>2</sub> 5 R <sub>2</sub> 5	P320		91.228 91.278 91.335 91.423 91.465	6	6 1 5 2 3	435.67 435.36 435.03 434.50 434.25	P <sub>1</sub> Z	Q <sub>2</sub> 3 Q <sub>2</sub> 3		R <sub>1</sub> 2 R <sub>1</sub> 2
87.788 87.870 87.885 87.926 88.078	8	7 6 7c 4	456.23 455.74 455.65 455.41 454.50	P <sub>1</sub> 20	P <sub>2</sub> 20	R35		91.582 91.614 91.663 91.761 91.778	4 4 1	9	433.55 433.36 433.07 432.48 432.38	P,14	P <sub>2</sub> 15	Q <sub>3</sub> 5 P <sub>3</sub> 15	
88.158 88.191 88.227 88.356 88.381		2 3 2 3c	454.02 453.82 453.62 452.83 452.68	R <sub>1</sub> 3	R <sub>2</sub> 4 R <sub>2</sub> 4			91.015 91.825 91.928 91.947 91.984	8c 2	3 2 5c 2	432,16 403,10 431,49 431,37 431,15	Ť	Ω <sub>E</sub> 1		я,2 R,2
88.509 88.685 88.779 88.843 88.874	7	8 9 6 2 1	451.92 450.86 450.30 449.92 449.73	P.19 R.2	P319	P,19		92.021 92.080 92.120 92.210 92.248	10 6 1	5 4 8 8 6	430,93 430,58 430,34 429,60 429,56	P <sub>1</sub> 4	P <sub>2</sub> 14	Q <sub>3</sub> 4	
88.907 88.944 88.992 89.119 89.156	8	2 6 2 2 4	449.54 449.31 449.02 448.27 448.05	R <sub>1</sub> 2	[Q <sub>3</sub> 9	R <sub>3,</sub> 4	R <sub>2</sub> 28 R <sub>2</sub> 28	92.309 92.322 92.372 92.399 92.463	6 9 2	4 3 7 6	429.23 429.13 428.63 428.67 428.29	P <sub>1</sub> 5 P <sub>1</sub> 5		P <sub>3</sub> 14 Q <sub>1</sub> 3	CTR. PERSONAL TERRORISMAN
89.213 89.229 89.406 89.427 89.468	1 d	4 2c 7 8c	447.71 -147.61 446.55 446.43 446.18	P118	R <sub>2</sub> 3 R <sub>2</sub> 3	P <sub>3</sub> l 6		92.505 92.531 92.568 92.577 92.600	5 5 3c	4 6 5	428.04 427.89 427.67 427.61 427.47	Pi6	P <sub>1</sub> 11] P <sub>2</sub> 13 P <sub>2</sub> 13		20,02
89.494 89,522 89.720 89.944 89.588	1 9	4 7c 7	446.03 445.85 444.65 443.34 443.07	Ril	P <sub>2</sub> 18 R <sub>2</sub> 2	Ω,8 R <sub>3</sub> 3		92.629 92.663 92.684 92.747 92.760	2 10 9	2 8 7	427.30 427.10 426.97 426.60 426.52	P.10 P.7 P.8	P <sub>1</sub> 8]	P <sub>1</sub> 9] C <sub>3</sub> 2	PURPLE BECKE AND AND AND AND AND AND AND AND AND AND
90.001 90.037 90.062 90.086 90.138		4 1 5 6	443.00 442.78 442.62 442.49 442.18	R <sub>1</sub> 0 P <sub>1</sub> 17 R <sub>1</sub> 0	R <sub>1</sub> 2			92.785 92.627 92.964 92.980 93.109	2 2 5c	2 3 7 9c 2	426,37 426,12 425,30 425,20 424,44		P <sub>2</sub> 2 P <sub>2</sub> 12 P <sub>2</sub> 12	P <sub>3</sub> 13	ROMAN MATERIAL
90.257 90.267 90.277 90.432 90.551		8 9c 2 2	441.47 441.41 441.35 440.42 439.71		P <sub>2</sub> 17	P <sub>3</sub> 17 Q <sub>3</sub> 7		93.139 93.291 93.420 93.452 93.527	6 9 4	4747	424.26 423.35 422.58 422.39 421.94		P <sub>2</sub> 3 P <sub>2</sub> 11 P <sub>2</sub> 4 P <sub>2</sub> 10	P,12	

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	4093.541	éс	7	24 421.86		P210				
i	93.596	1	2.	421.52		-2				
1	93.627	9	4	421.35		P25	]			
1	93.710		6	420.85		P29				
1	93.762	9	5	420.54		P26				
	93.803	8	6	420.30	[P <sub>2</sub> 8	P <sub>2</sub> 7	1			
- 1	93.819	8c	6c	420.20		•				
1	93.867	5	7	419.91			P,11			
1	93.935	0	2	419.51			1 1			
	94.178	0	5	418.06			1 1	R <sub>1</sub> 27		
-	94.371	6	3	416.91		'	P,3			
ŀ	94.478	7	7	416.27			P39			į
- 1	94.532	1	3	415.95			1 1	i		
- 1	94.610	9	4	415.49			P34		1	
- 1	94.669	9	6	415.13			P38			
	94.726	1	5	414.79					R <sub>2</sub> 26	
- 1	94.751	9	3	414.64			P35			
- 1	94.781	8	5	414.46			P <sub>3</sub> 7	1		
- [	94.810	9	5	4.4.29			P16	į		
	95.138		3	412.34						
	95,243		4	411.71						
- 1	95.316		5	411.28						B <sub>3</sub> 25
- !	95.466		ž	410.38		j ,		P <sub>1</sub> 41		
1	95.529		3	410.01			1	P <sub>1</sub> 41		1 1
- 1	95.842	0	3c	408.14				1	P <sub>2</sub> 40	1
- [							( (			
ı	96.256	ļ	3 2	405.67			i i			P <sub>3</sub> 39
٠.	95.378 96.815		8	404.94 402.34			1	R,26		
- 1	97.401		3	398.85			,	Time	R <sub>2</sub> 25	
- 1	97.424		60	398.72		1	1 1		R <sub>2</sub> 25	
١		'		•						
- 1	97.621		2	397.54					1	
- !	97.577		2	397.21						
- 1	97.764		3	396.69				540		
- 1	98.006 98.042		6	395.25 395.04			1 1	P <sub>1</sub> 40		R,24
١	70.042	'	١,	3,3.04			1			2792.4
١	98.085		2	394.78		}	1	P,40		
J	98.443		3	392.65			į i		P <sub>2</sub> 39	
١	98.884		5 -	390.02			1			P338
Į	99.214		2	388.06				l		1
١	99.357		3	387.21				R <sub>1</sub> 25		- 1
1	99.399		5	386.96		1		R,25	1	
Į	99.559		ž	386.02						
-	99.620		2	385.65				[		
1	99.953		2	383.67	•			1	R <sub>2</sub> 24	
-	7,998		8	383.40		Ì			R <sub>2</sub> 24	
- [	4100 244		2	301 04						
ŀ	4100.244	i	8	381.94 379.73		i	1			,,,,
١	00.698		2	379.21	!	l				B,23
١	01.022	ł	3	377.31		1			P238	
-	01.464		4	374.69		Ī			- , - 5	7,17
- [			1	[		l				-
	01.571	t	2	374.05		l	•			
	01.839		7 3	372.46		!		R <sub>1</sub> 24		
١	01.891		8	372.15		1		R <sub>1</sub> 24		
-	02.513 02.706		2 2	368.45 367.31		ł	1		R <sub>3</sub> 23	
-	V2.100		L	1		L		l	L. <u></u> -1	

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02,896   2c   364.07	ŀ	4102 702		┼	24 264 05		·		622		├	24 212 22	<del> </del>		· · ·
02,956   2c   365,82   03,125   2   364,07   03,481   2   362,71   03,651   3   361,70   03,955   3   360,01   04,257   4   358,01   04,257   4   358,01   04,257   4   358,01   05,267   3   352,49   05,267   3   352,41   05,570   3   350,11   P <sub>1</sub> 37   05,570   3   350,11   P <sub>1</sub> 37   05,570   3   350,11   P <sub>1</sub> 37   05,570   3   350,11   P <sub>1</sub> 37   05,570   3   350,11   P <sub>1</sub> 37   05,570   3   350,11   P <sub>1</sub> 37   05,570   3   350,11   P <sub>1</sub> 37   05,570   3   300,45   05,625   7   344,58   P <sub>2</sub> 36   P <sub>2</sub> 36   P <sub>2</sub> 36   P <sub>2</sub> 36   P <sub>2</sub> 36   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 36   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 35   P <sub>2</sub> 3	1			2					1 895	1			1	KILA	1
03.166	1		l	2c					12.099	1				i	
03,251   2   364,07     12,202   55   311,04   P <sub>3</sub> 34     13,055     14,055	1		]				1	R.22	12,173	1			· '	1	
03,481	1	03.251	1	2	364.07				12.202	1	5c		P <sub>1</sub> 34		
03.935   3   360.01   R23   R23   R22     12.470   3   309.45   Solution   R23   R23   R22     12.667   3   308.64   R23   R23   R22     12.667   3   308.64   R23   R23   R22   R22   R22   R22   R22   R22   R22   R22   R22   R23   R23   R23   R24   R25	1		1	1_		(				1			1		}
03.935   3   360.01   R23   R23   R22     12.470   3   309.45   Solution   R23   R23   R22     12.667   3   308.64   R23   R23   R22     12.667   3   308.64   R23   R23   R22   R22   R22   R22   R22   R22   R22   R22   R22   R23   R23   R23   R24   R25	ı		1	13		1				1			- 24	1	
04.257	1		1	1		} :				1		319,30	1724	1	į .
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04.963						R,23				1					1,310
05.203	1		l	L											
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10.459   2   321.35   P <sub>2</sub> 34   18.003   2   276.79   R <sub>2</sub> 16   10.490   2   311.17   P <sub>2</sub> 34   18.032   4   276.62   276.37   10.753   00   3   319.61     18.162   2   275.86   P <sub>2</sub> 31   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16   R <sub>2</sub> 16	1			_											1
10.490   4   321.17   P <sub>2</sub> 34   18.032   4   276.62   276.37   10.693   00   3   319.61							D. 24	R,19							P,30
10.693   2   319.96   18.074   2   276.37   10.753   00   3   319.61   18.162   2   275.86   P <sub>1</sub> 31	ı						P.34			1				Rale	
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10.947   4   318.45   P <sub>3</sub> 33   18.233   3   275.44   P <sub>3</sub> 31   11.026   5   317.99   R <sub>1</sub> 20   P <sub>3</sub> 33   18.432   0   4   274.26   P <sub>3</sub> 31	1					R.20	1	P333		٦			P <sub>1</sub> 31		
11.081 4 317.67 R <sub>1</sub> 20 18.593 3 273.31	1					R,20				ן "ן					
11.487   3   315.27       18.686   12   272.76     p.30	1	11.487	'	3	315.27		J	j		1	2		1	P,30	
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4118.629	F	3	24 271.92	<b></b>	<u> </u>	1,	<del> </del>	H	5	<del> </del>		<u> </u>	<u> </u>
18.942	l	6	271.26	R,16	1	R,15	4125.222 25.546	1.	8	24 234.31 232,40	P <sub>1</sub> 27	}	1
19.017	1	15	270.82	R <sub>1</sub> 16	ì	1	25.620		7	231.97	R <sub>1</sub> 12	ł	1
19.222	ı	5	259.61		1	P <sub>3</sub> 29	25.709	1	8	231.45	RIIZ	P226	l
19.524	•	3	268.42		!	1 307	25.809		4	230.86	1	Field	l
	ľ		2000		i		1	1	1	1	1	į .	1
19.875	ŀ	3	265.76		R <sub>2</sub> 15	1	26.024	1	4	229.60		•	1
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19,968	ŀ	0	265.21		ł	1	26.103	4	8	229.13	i '	ł	R <sub>3</sub> 11
20.010	l	3	264.97		l		26.251	1	9	228.26	1 .	Į .	P325
20.040	l	6	264.79	P <sub>1</sub> 30	1	1	26.418	]	3	237.29	l		1 -
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20.088		1	264.51			1 1	26.710	L	9	225.57	P,26	]	
20.128	Ì.,	1	264.27	}	1	1	26.718	5	l,	225.52		R <sub>2</sub> l1	i
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20.590	יי	'	201.51	,	2229		27.061	ľ	′	223.51	R <sub>1</sub> 11	Ì	1
20.715	0	4	260.81	R <sub>1</sub> 15	ì	1 1	27.248	1	8	222.41	1	226	1
20.765		8	260.52	1112		R <sub>3</sub> 14	27.584	114		220.44		-P225	1
20.782	ı	8c	260.41	R <sub>1</sub> 15			27.658	١	Ž	220.01		l	
21.075	[	4	258.69			P,28	27.731	6	9	219.58	}	}	R,10
21.168		3	258,50			- ,	27.207	ľ	ĺś.	219.13	•	ł	P,24
			1			1			}		j j	1	
21.282		4	257.48		į	1 1	27.849		2	218.89		l	l
21.344	0	2	257.11		1	1 1	27.963		2	218.22	•		l
21.431		3	256,60			1 1	28.046	0	2	217.73	]	1	}
21.601		4	255.60			1 1	28.153		4	217.10	P,25	l	}
21.729		4	254.65		R <sub>2</sub> 14		28.200		6	216.83	P,25	1	1
21.770		6	254.60		514	i 1	28.218		5c	316 73			1
21.822			254.30		R <sub>2</sub> 14	1 1	28.252	6		216.72		R <sub>2</sub> 10	1
21.883		2	253.94	P129			28.349	6	5	216.52 215.95		R <sub>2</sub> 10	
21.925		5	253.69	P <sub>1</sub> 29			28.421	4	3	215.53	R <sub>1</sub> 10 R <sub>1</sub> 10	i i	•
22.180		3	252.19	1107		1	28.694	•	ž	213.93	K110	I .	l
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22.215		3	251.99				28.721	1	9c	213.77		P <sub>2</sub> 24	l
22.241		2	251.83				28.864		2	212.93			
22.375		5	251.04		P228	1 1	29.282	8	10	210.49		[P <sub>3</sub> 23	R <sub>3</sub> 9
22.410		6	250.84	R <sub>1</sub> 14		ļļ	29.515		8	209.12	P124		ľ
22.478	1	4	250.43	R <sub>1</sub> 14			29.568		3	208.60	P124		
22.600	١	2	249.72			1 1	20 624	В	9	300 41			
22.622	,	5c	249.59			R,13	29.634 29.672	4	2	208.41 208.19	R <sub>1</sub> 9	R <sub>2</sub> 9	
22.673	•	4	249.29	1		1,323	29.698		5	208.19	- a	R <sub>2</sub> 9	
22.815		3	248.46				29.754	1	2	207.71	R:9		1
	0	2	248.28	- 1		i f	29.833		3	207.25			1 1
1				1		1			-				
22.893		5	248.00	- 1		P,27	30.098		8	205.70	1	P,23	
	2	6	244.60	- 1	R <sub>2</sub> 13	·	30.684		8	202.26	1	•	P,22
23.505	- 1	5	244.40	1	R <sub>2</sub> 13	1	30.750		7	201.87	1		R38
23.554	. 1	2 7	244.11	P,28			30.790		2	201.64	P <sub>1</sub> 23		Ť
23,611	0	′	243.18	P128			30.828	9	4	204,42	R <sub>1</sub> 8		
23.733	ļ	2	243.06	ı		l	30,849		4c	201 20	,,,,		
23.947	1	4	241.80	1	i		30.894	7	4	201.30 201.03	P <sub>1</sub> 23		
	1	4	241.37	R,13		ĺ	30.977	6	4	200.54	Ris	R28	
	3	7	240.98	R,13		i	31.012	В	6	200.35		R <sub>2</sub> 8	
24.109		60	240.85		P27		31.407		7	198.03		P <sub>1</sub> 22	
	_ [	. 1		i	- 1	ı	i : 1						
	2	8	239.12	Į		R.12	31.558		2	197.14			
24.608	ł	2 5	237.92	1	ŀ	P,26	31.768		3	195.91			
24.641 25.135	2		237.72	1	٠,,,	1	31.945		3	194.87	R,7		
	3	4 6	234.61	P <sub>1</sub> 27	R <sub>2</sub> 12		32.002 32.013	9	10	194.55 194.48	PiZZ		P <sub>3</sub> 21
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4132.051 32.137		3 7	24 194.26 193.75	P <sub>1</sub> 22		R,7	4136,415	10c	3	24 168.73 168.44		R <sub>2</sub> 3	P,17
32.228		5	193.22	1	R <sub>2</sub> 7	1	36.525	1	1	168.09			0,8
32.261		4	193.03	1	R <sub>2</sub> 7	1	36.582	[	4	167.76	1	,	
32.319		2	192.69				36.699	8	3	167.07		P217	
32.507		2	191.59				36.719		20	166.96		F217	
32.623		15	190.91		P <sub>2</sub> 21	1 1	36.774	i,	5	166.63	P,17	- 3-1	l
32.687	,	3	190.53	1	- 4	1	36.828		6	166.32	P,17	1	1
32.720	-	Z	190.34	1 1	1	ì	36.886		4	165.99	- 3		R,3
32.831		2c	189.69				37.038		5	165.09	R <sub>i</sub> 1		
32.927	1	2	189.13				37.072	9	2	164.89			l
32.921	,	6	188.80	26		1 1	37.231	8	3	163.97	R <sub>2</sub> 1	D 2	1
32.982 32.045		4	188.44	R <sub>1</sub> 6			37.245		1	163.88	1	R <sub>2</sub> Z	1
33.116	7	3	188.02	P <sub>1</sub> 21	,	! !	37.286	100	5	163.65		R <sub>2</sub> 2	l
33.172		6	187.69	P <sub>1</sub> 21		] ]	37.299	3		163.57			Q <sub>3</sub> 7
										ļ			-,-
33.201	_	2	187.51 187.35			P;20	37.326 37.381	1	5	163.41 163.09	*	l	١.,,
33.232 33.400		2	186.36	1 1	D 6	الاشتوع	37.426		2	162.83	l		P,16
33.430	,,	7	186.18	1 1	R <sub>2</sub> 6 ·	l i	37.478		6	162.53	216	ŀ	1
33.451	10	7c	186.06		N <sub>2</sub> O	R,6	37.517	٦	6	162.30	P <sub>1</sub> 16	P,16	
- 1				1 1						•		_	ļ
33.659		4	184.84	i i			37.531	3	δc	162.21	P,16	1,12	1
33.75	٥	3	184.29	1 1	P <sub>2</sub> 20	1 1	37.649		2	161.53	R10	•	ł
33.773		7c	184.18		P <sub>2</sub> 20	1	37.675	4	L	161.37	R <sub>1</sub> 0	'	i
33.941 33.997	9	3	183.20 182.87	R <sub>1</sub> 5	;		37.750 37.852	100	2 4	160.94 160.34			١.,
33.771				R <sub>1</sub> 5			37.032	"	•	100.34			R <sub>2</sub> 2
34,054		2	182.53	P <sub>1</sub> 20			37.892		Z	160.10			
34.153	i	2	181.95	P120			37.986		4	159.56		R <sub>2</sub> 1	₽36
34.213	١.,	1	181.61 180.60			200	38.066		_	159.09		Ω <sub>2</sub> 5	l
34.385 34.422	•	2 2c	160.38			P <sub>3</sub> 19	38.104 38.155		5 8	158.87 158.57	P <sub>1</sub> 15		
	_	1					1				- 1		
34,485		5	180.01		R <sub>2</sub> 5		38.207		5	158.27			P,15
34.515		2	179.84		R <sub>2</sub> 5	ا ۽ ۾ ا	38.247		6	158.04		P215	I
34.681		6	178.87	<b>.</b>		R,5	38.267		×	157.92		P215	l
34.822 34.876		4 2	178.04 177.74	R <sub>1</sub> 4		1	38.409 38.464			157.09 156.77		Q <sub>2</sub> 4	
34.010	′											Q <sub>2</sub> 4	ļ
35,117		1	176.32	P,19		}	38,594		2	156.01			Ω,5
	1	3	176.08	P <sub>i</sub> 19			38,643		7	155.72	P <sub>1</sub> 14		
35.262		3	175.47	] }			38,664			155.60	Pil		
35.365		2	174.87 174.17		10.4		38.694		5	155,43	Pil	P <sub>1</sub> 14]	ł
35.464	7	"	4 13.1 f		R <sub>2</sub> 4		38:744	١		155,13		Ω <sub>2</sub> 3	Ì
35.507	10	5c	174.04		R24		38,759		4	155.05			l
35.565		2	173.70			1	38,776			154.95		Q <sub>2</sub> 3	ł
35.634	9	2	173.30 173.17	R <sub>1</sub> 3			38.824		4	154.67			
35.657 35.676	10	4¢	173.17	R <sub>1</sub> 3			38.855 38.894		2	154.48 154.26	İ	P <sub>2</sub> 14	l
	-						1					_	l
35.735 35.623	10	2 8	172.70 172.19			R <sub>3</sub> 4	38.915 38.958	5c	6c 7	154.14 153.88		P <sub>2</sub> l4	P <sub>3</sub> 14
35.957		2	171.41				38.989		í	153.70		Q <sub>2</sub> 2	-317
35.987	- 1	7	171.23	P,18	į		39.003		•	153.62		S <sub>2</sub> C	1
36.040		6	170.93	P,18			39.019		2	153.53			l
36.130	į	3	170.40				39.078	9	2	153.18	P.2		Ì
36.208	- 1	4	169.94				39.104		6	153.03	P <sub>1</sub> 2 P <sub>1</sub> 2	P <sub>1</sub> 13]	Ω,4
	•	3	169.32				39.152		7	152.75	P <sub>1</sub> 13	Ωį	
36, 314						. 1					- 4		
36.314 36.370		3	168.99	R <sub>1</sub> 2		ľ	39.235	וסו	3	152.27			l

\*N I line 4137,837

λ	1	1,	<b>*</b>	Cla	ssificat 3-7	ion	l l	I	٧	Cla	ssificat 3-7	ion
4139.313 39.434 39.460 39.482 39.523	8 9 8	3 2 9 9c 5	24 151.42 151.11 150.96 150.83 150.59	P <sub>1</sub> 3 P <sub>1</sub> 3 P <sub>1</sub> 12 P <sub>1</sub> 12	P <sub>2</sub> 13	Q <sub>3</sub> 3	4141.910 43.440 51.491 59.257	10 7 9 2	24 136.67 127.76 080.97 036.00	•		P36
39.587 39.622 39.725 39.752 39.780	5 10 7	2 8 5 1 4	150.21 150.01 149.41 149.25 149.09	P <sub>1</sub> 4 P <sub>1</sub> 4 P <sub>1</sub> 11		P313					1-7	
39.806 39.828 39.837 39.881 39.918	9 10c 2	3 8 2 2	148.94 148.81 148.75 148.50 148.28	P <sub>2</sub> 11		Ω <sub>3</sub> 2	4878.946 79.990 80.747 80.814 81.319	2d 2 0 1 1bd	20.490.53 486.14 482.96 482.68 480.56	R <sub>1</sub> 17 R <sub>1</sub> 17		
39.946 39.966 39.977 39.998 40.040	9	6 7c 6 4	148.12 148.01 147.94 147.82 147.57	P <sub>1</sub> 5 P <sub>1</sub> 5 P <sub>1</sub> 10 P <sub>1</sub> 10	P <sub>2</sub> 12 P <sub>2</sub> 12	,	81.729 82.113 82.506 82.25, 83.799	1 1 1 2d 2	478.84 477.23 475.59 474.10 470.16	R <sub>1</sub> 16		R <sub>3</sub> 15
40.070 40.101 40.136 40.165 40.182	10 9 8	5 5	147.40 147.22 147.01 146.84 146.75	P <sub>1</sub> 6 P <sub>1</sub> 6	P <sub>1</sub> 9]		83.878 84.972 86.010 86.705 86.792	1 2 2 2 2	469.83 465.25 460.90 457.99 457.63	R <sub>1</sub> 16 R <sub>1</sub> 15 R <sub>1</sub> 15	R <sub>2</sub> 15	R314
40.187 40.208 40.225 40.241 40.347	10	9c 4c		P <sub>1</sub> 7 P <sub>1</sub> 8 P <sub>1</sub> 7 P <sub>1</sub> 8	P211	P <sub>3</sub> 12	87.944 87.991 89.004 89.485 89.565	1 2 3 2 1	452.80 452.61 448.37 446.36 446.02	R <sub>1</sub> 14 R <sub>1</sub> 14	R <sub>2</sub> 14 R <sub>2</sub> 14	R313
40.361 40.395 40.427 40.517 40.553	10	2 7 4 3	145.70 145.50 145.32 144.79 144.58		P <sub>2</sub> 11		90.596 90.779 90.827 91.955 92.121	1d 2 1 3 2	441.71 440.95 440.75 436.04 435.34	R <sub>1</sub> 13	R <sub>2</sub> 13 R <sub>2</sub> 13	R <sub>3</sub> 12
40.615 40.666 40.678 40.709 40.762	7 80	3 8 10 5	144.22 143.92 143.85 143.67 143.36		P <sub>2</sub> 10 P <sub>3</sub> 10	P311	92.198 92.506 93.412 93.471 93.521	4 1 2 1 3	435.02 433.73 429.95 429.70 429.50	R <sub>1</sub> 13	R <sub>2</sub> 12 R <sub>2</sub> 12	
40.788 40.897 40.969 40.976 41.009	9 8 10	6 7 6 1	143.21 142.58 142.50 142.12 141.92		P <sub>2</sub> 4 P <sub>3</sub> 9 P <sub>2</sub> 9 P <sub>2</sub> 5		94.611 94.664 94.697 96.029 96.078	5 5 4 5 2	424.95 424.72 424.59 419.03 418.82	R <sub>1</sub> !?	R <sub>2</sub> 11 R <sub>2</sub> 11	R <sub>3</sub> 1%
41.046 41.085 41.101 41.124 41.452	10 10 10		141.70 141.48 141.38 141.25 139.34		P <sub>2</sub> 8 P <sub>2</sub> 6 P <sub>2</sub> 7	P310 P39	96.961 97.042 97.274 98.450 98.500	3 6 5 2 6	415.14 414.81 413.84 408.94 408.73	R <sub>1</sub> 11 R <sub>1</sub> 11	R <sub>2</sub> 10 R <sub>2</sub> 10	R,10
41.507 41.697 41.743 41.846 41.876	10 10		139.02 137.91 137.64 137.04 136.87			P <sub>3</sub> 3 P <sub>3</sub> 8 P <sub>3</sub> 4 P <sub>3</sub> 7 P <sub>3</sub> 5	99,171 99,252 99,745 4900,727 00,776	7 4 8 7 4	405.93 405.60 403.54 399.46 399.25	R <sub>1</sub> 10 R <sub>1</sub> 10	R <sub>2</sub> 9 R <sub>2</sub> 9	R,9

\*N I line 4151,46

·····		γ				·			,		
l.	I	y	Cl	l-7	tion	λ	I	٠	a	aseificat 1-7	do <del>n</del>
4901.242	5	20 397.31	R19			4911.392	9	20 355.17		R <sub>2</sub> 3	
01.320	9	396.99	R <sub>1</sub> 9	1	.	11.422	6	355.04	l	R <sub>2</sub> 3	
02.655	9	393.79	i	1	R38.	11.484	1	354,77	i		
02. Eć-4	5	390.55	}	R28	1 1	11.573	4	354.40	l	P <sub>2</sub> 15	1
02.913	8	390.36	İ	R28	1	11.604	3	354.28		P,15	
03.174	8	389.27	R,8	1		11.677	10	353.98	1	R <sub>2</sub> 3	ĺ
03.25-0	6	388.96	R,8	Į.	1 1	11.778	3	353.56	İ		Ω,7
04.225	9	384.64	ļ	1	R <sub>2</sub> 7	11.948	9	352.86	Rel	P <sub>2</sub> 15]	
04.859	8	382.27	1	R <sub>2</sub> 7	<b>!</b> !	11.991	7	352.68	R <sub>3</sub> 2	P,15	ł
04.955	5	382.08		R <sub>2</sub> 7		12.443	5	350.81	l	1	P <sub>3</sub> 14
04.967	6	381.82	R <sub>1</sub> 7	1	1·	12.587	1	350.21	1	4	
05.C37	9	381.53	R,7	l .	1 1	12.663	8	349.89	1	R <sub>2</sub> Z	Q <sub>4</sub> 6]
05.182	0	380.93	l		1 1	12.685	8	349.80	į	R <sub>2</sub> Z	
05.852 06.153	2	378.35	٦.,	1		12.842	2	349.15	l	P <sub>2</sub> 14	
00,163	! '	377.10	P <sub>1</sub> 19	l	l l	12.873	,	349.02	l	P214	
06.157	2	376.88	P,19	l		12.936	4	348.76	•	1	Ω,6
06.221	2	376.36	1	į	[_,]	12.969	4	348,63	R <sub>1</sub> 1	<b>f</b>	
06.355	10	376.06	1	ì	R <sub>3</sub> 6	12.999	6	348.51	R <sub>1</sub> 1	1	
06.464 06.624	2	375.52 374.94		ł		13.054	6	346.28	P <sub>1</sub> 14		1
	1	317.77	R <sub>1</sub> 6		1 1	13.108	3	348.05	P <sub>1</sub> 14	1	li
06.690	9	374.66	R <sub>1</sub> 6			13.148	7	347.89	l	•	R,Z
06.712	8	374.58	1	R <sub>2</sub> 6	1 1	13.523	1	346.33	ı	Q <sub>2</sub> 5	,-
06.75	9	374.41	1	R <sub>z</sub> 6	li	13,621	2	345.93	l	Ω25	
06.984	2	373.44	l		i 1	13.699	7	345.61	1		P,13
07.138	3	372.80	1	P218		13.799	7	345.19	1	R <sub>2</sub> 1	
07.215	3	372.48		Pa18		13.871	5	344.90	R,0	i	
07.349	1	371.93	i	•	1	13.895	3	344.80	R <sub>1</sub> 0		
07.424	1	371.62		1	Q,10	13.947	5	344.58	•	P213	Q <sub>3</sub> 5
07.513	2	371.25				13.978	5	344.45		P <sub>3</sub> 13	
07.665	3bd	370.60			P316	14.017	4	344.29	P <sub>1</sub> 13		1
07.773	3	370.17	P,18			14.075	7	344.05	P <sub>1</sub> 13		
07.823	2	369.94	P118			14.167	1	343.67	1 1	1	
07.963	2bd	369.35			1	14.229	2	343.41		Ω <sub>2</sub> 4	
08.153	7	368.59	R <sub>1</sub> 5		1	14.306	1	. 343.09		Q <sub>2</sub> 4	
08.264	9	368.38	R <sub>1</sub> 5		1	14.803	8	341.03		Q <sub>2</sub> 3	Q <sub>3</sub> 4
08.272	9	368.10			R25	14,847	19	340.85	P,12		P <sub>2</sub> 12
08.415	9	367.51		R <sub>2</sub> 5	1	14.901	5	340.63	P, .2	Į į	- 3
08.455	7	367.34	l	R <sub>2</sub> 5		14.933	4	310.50	-		
08.605	2	366.72		P217		1.4.961	4	340.37		P212	
09.009	1	365.04			Ω,9	14,992	7	340.26		P <sub>3</sub> 12	
09.367	4	363.54	P <sub>1</sub> 17	]	P,16	15,217	4	339.32	i	Q <sub>2</sub> 2	
09.454	1	363,19	-	i i	-	15.248	2c	339.19			
09.542	9	362.84	R <sub>1</sub> 4	1		15.342	6	338.81	P <sub>i</sub> 1		
09.594	7	362.62	R <sub>1</sub> 4	l I		! !			-		
09.975	7	361.03		R24		!!					1
10.012	9	360.88		R <sub>2</sub> 4	1	1 1					[
10.051	9	360, 72			R34	<u> </u>	1				
10.149	1	360.31		Pa16		] ]					
10.124	3	360.16		P <sub>2</sub> 16		] ]	1				
10.459	2	359.02			Ω,6	1 1					i
10.693	3	358.03	P <sub>1</sub> 16		ŀ	[ ]					
10.754	2	357.81	P <sub>1</sub> 16			]					
10.803	6	357.58	R <sub>1</sub> 3		1	( !					
10.851	9	357.40	R <sub>1</sub> 3		n		- 1				ł
10.941	,	357.03			P,15	1 1	1				· i

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Table 11

Bands of the First Positive Group of N2

The following	vavetengin regions are included			
Range	Bande	Plates		Page
λ5099-5185 <b>+</b>	21-16, 20-15, 19-14, 18-13	59P83a		69
5185-5243	17-12	59P83a		69
5243-5306*	16-11, 15-10, 14-9	59P83a		71
5515-5661*	3-3, 7-2, 16-12, 6-1, 15-11, 14-10	59P83b		71
5707-5885	12-8, 11-7, 10-6	59P57c		72
6146-6652	4-0, 12-9, 11-8, 10-7, 9-6, 8-5, 7-4, 6-3	59P57d	58P365d	86
6726-6903	4-1, 3-0	58P365e		129
7203-7544	6-4, 5-3, 4-2	58P365f		135
7628-7856#	Z-0, 7-6	59P117c	58P365g	148
7856-8081	7-6 6-5	58P365g		176
8790-8944	1-0	58P365i		181

All measurements are from first order plates with a dispersion of 1.2  $\hbar/mm$ . All observed lines are given except in the intervals marked \*. However in most cases very weak unclassified lines have been omitted. The intensities are eye estimates or from uncalibrated microphotometer traces.

The discharge conditions were: 200 mc discharge in  $N_2$  at 0.01 mm pressure cooled by liquid nitrogen. In the region marked # measurements from an uncooled discharge at 1.0 mm pressure are included.

# Both high , and low temperature discharge

• Only the lines near the head listed for these bands

λ	1		Classification			1	. 1 - 1			Classification		
5099,207	2	19 605.44			F	5190.40	8 1be	19 260.96		T11-12-	l	
99.453	2	604.50		1	1	90.76	0 1	259.65	1	1	1	
99.542	1 1	604.16	21-16	P,		90.91	5   Z	259.08	R <sub>1</sub> 15	<b>[</b>	1	
		1		· •		91.40	7 1	257.25			<b>i</b>	
5126,629	11	500.58		1		91.54	6 0	256.74	•	1	•	
26.754	1 1	500.10			i	ł	- (	1	l	i	ì	
26, 852	2	499.73		1 :		91.68	5   1	256.22	j	1		
27.028	1 1	499.09		•		91.81	1 2	255.75	1	1	ł	
27, 095	2	498.81	20-15	$\mathbf{p_i}$		91.98	4   1d	255,11	l	1		
					1	92.45	7 1	253,36	R,14	1	ĺ	
54,924	2	393.54				92.62	0 0	252.75	1			
55.023	2	393.17				1	- [	1	(	i i	i '	
55,100	4	392.88				92.83	3   14	251.97	1		1	
55,207	2	392.48	į į	1		92.93	5 0	251.39	(	1	}	
55.296	2	392.14				93.20	5   1	250.59	į	t i		
55.357	3	391.91	19-14	P,		93.34	5 2	250,07	1	1		
	1	1				- 93.50	3 0	249.48	]	1		
83,840	4	285,36	į į	1	[	i	1	1	ĺ	1		
83,929	3	285,03			i i	93.87		248.12	j	(		
83.991	7	284.80				93.96	2   3	247.78	R,13	1	]	
84.064	1	284.53				94.13	4   1	247.14	•	[	(	
84.135	3	284.27				94.31	3 1	246.48	ļ	1		
84.199	12	284.C3				94.50	5 j 2d	245.77	1	1	[ !	
84.252	6	283.83	18-13	P,		1	1			1		
	1			1 - 1		94.73	4 2	244.92	l	[	1	
84.434	1	283.15		١. ا	1	94.93	2 2	244.19	j	Q <sub>3</sub> 9		
86.203	1	276.58			i i	95.19	0 14	243,23			1	
86.518	ld	275.41				95.34		242.64	1	]	j :	
86.630	2	274,99				95.46	0   2	242,23	R,12	1		
87.017	1	273.55			] [	I	1	}	1 -	j	]	
						95.68		241.40	1	1	1	
87.478	1	271.84				95.97		240.32	ĺ	Q <sub>2</sub> 7	[	
87.635	1	271.26				96.08		239.90	1	[ ]	[	
87.774	2.4	270.74				96.21		239.43	(	ĺ	[	
88.514	1	267.99				96.31	0 2	239.08	l	R <sub>2</sub> 7		
89.333	ld	264.95				]	}	]	]		)	
	1					96.38		238.81	j	j i		
89.641	1 1	263.81			j	96.47		238.46	)		j	
89.826	2	263.12				96.83		237.15	l	ĺ		
90.043	1	262.31				96.91		236.86	R <sub>1</sub> 11	<b>,</b>		
90.175	1	261.82			i i	97.06	6 O	236.28	i -	<u> </u>		

	F		Classification					Classification		
1 5197.207	1	[ •	17-12		λ	1	v	17-12		
	e	19 235.76				5206.480	1	19 201.50	Ωμ10	
97.357	ī	235.21	1	R <sub>2</sub> 6	1	06.566	2	201.19	R14	
	6			****	i	06.695	õ	200.75		1
97.688		233,98			1				أمدما	t t
97.939	1	233.05			ŧ	06.811	2	200.28	C110	- {
98.147	,	232.28			1	06.905	3	199.94	1	1
			- 1		- 1				1	I
98.257	Z	231.88		R <sub>2</sub> 5	- 1	07.166	1	198.97	1	į.
98.36Z	2	231_49	R,10		ì	07.267	2	198.60	Q <sub>12</sub> 7	ı
98,645		230.44	1		- 1	07.395	1	198.13		
98.914	1 1	229.45	1		l	07.488	1	197.78	1	ł
99.136	2	228.63	1		1	07.565	3	197.50	Ω <sub>1</sub> 9	ł
	1	1 - `	1		1		1		· 1	1
99.428	, ,	227.55	} }	- 1	1	07.622	2	197.29	1	1
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99.862	1	225.94				07.889	3	196.31	R <sub>4</sub> 3	. 1
99.992	lż	225.46	} }	1	<b>1</b>	08.018	Ĩ	195.83	7-6-	ì
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00.753	1	222.65	1 1	1	: 1	08.302	3	194.79	Ω <sub>1</sub> 8	1
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	-	218.21	1				li		ا ر روا	
01.954			1			09,201		191.47	R <sub>1</sub> Z	1
02.132	1	217.55				09,439	1	190,60	D116	. 1
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( · ·	. 2	214.75	1	03		10.317	1	187.36	, ,	1
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03.664		211.89	1		,	10,929	0	165.11	ļ l	
93.766	1	211.52	! _ ,			11.034		184.72		1
03.890	2	211.06	R <sub>1</sub> 6			11.098		184.49	Q 4	. 1
04.061		210.43	[ ]		1	11.301	1	183.74	1	1
04.243		209.76	į į			11.494	2	183.03		1
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04.418	24	209.11	Q <sub>1</sub> 13			11.578	1	182.72		1
04.656	2	208.23	1 (			11.684	1	182.33		_ [
04.798	1	207.71	1 1	Ī	1	11.767	4	182.02		R, 0]
04.901	•	207.33		}	ł .	11.953	1	131.34		1
05.002	2	206.96	1 1		•	12.079	0	180.88		1
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05.111	1	206.55		200	1	12.231	1	180.32		
05.228	4	206.12		R <sub>1</sub> 5]	1	12,423	2	179.61		i
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05.893	1	203.67		1	1	12.891	11	177.89		
06.027	4	203.17			<u> </u>	13.008		177.46		
06.133		202.78	1 :	l	ł	13.070		177.23		P1213]
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	20,557	1 "	1	1	i	I	92.387		876.50	124,5	l	i
	26,732	2	127.10	1	I	1	92.471		876.23		l	l
	27.169	1	125.50		I	I	92.534		876.03	P <sub>1</sub> 1	l	•
	27.279	li	125.10		1	i	92,632		875.72	P <sub>1</sub> 3	l	1
	27.589		123.96		1	1	92.687		875.54	1 - 1 -	l	l
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	27.837	1	123.06	1	1	1	92.853		875.01	P <sub>1</sub> 7	l	1
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19.317     1     480.37       19.339     1     479.70       19.508     1     479.18       19.614     1     478.86       19.708     3     478.57       19.804     1     478.28       20.080     1     477.43       20.080     1     477.43       20.264     1     476.87       20.543     3     476.02       21.268     2     473.80       20.543     3     476.02       21.268     2     473.80		١.,
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	31.183	i	443.58	ł			37.178	5	425.35	j	Q <sub>2</sub> 11	Ì
	31.305	5	443,21	<b>!</b>	ì	Ω, 13	37,244	2	425.15			P <sub>3</sub> 5
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- 1	32.297	1	440.18		۱	ا ا	37.903	4	423.15		Q <sub>2</sub> 10	
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ŀ	32,606	3	439.25	R <sub>1</sub> 11		Ω <sub>32</sub> 4 Ω <sub>3</sub> 3	38,247	1	422.33			
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- 1	32.794	9	438.68		R <sub>21</sub> 7	Q <sub>32</sub> 5	38.376	3	421.71		Q <sub>13</sub> 10	
١	32,852	5	438.50		-	Q <sub>3</sub> 10	38.466	1	421.44		R <sub>2</sub> 2	
- 1	32,913	1	438.32			Q,,28	36.558	7	421.16		Q2 9	
- 1	32.992	5	438.07 437.84		[Q <sub>32</sub> 7	Ω, 4	38.664 38.744	1	420.84			
- 1	33.069	٠ ١	737.67			]	30.199	1	420.59			
- 1	33,156	· 95	437.57		S <sub>21</sub> 3	Ω, 9	38, 821	5	420.36		R412	
- 1	33.275	8	437.21		-21	Q15	38.937	3	420,01		Ω219	
- [	33.366	5	436.94	•		Ω,8	39.023	4	419.75		Ω2.9	
- 1	33,449	9	436,68		[Q, 6	Ω, 7	39.142	4	419.39		Q <sub>2</sub> &	
- 1	33.545	2	436.39		Ω <sub>2</sub> 15		39.271	1	419.00			
- 1	33,647	ı	436.08			1	39.384	4	418.65			22
- 1	33,761	ż	: 435.73		R <sub>2</sub> 6	!	39,463	l i l	418.44	Q, 15		P <sub>3</sub> 7
- 1	33,830	1	435.52			1	39.518	6	418,25		Q218	
- [	33.951	1	435.16				39.594	2	418.02	•	•	
- 1	34.055	1	434.84			İ	39.652	١ ٨	417.84		Q <sub>2</sub> 7	Ω <sub>23</sub> 8]
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-	34.142 34.359	5 j	434.58 433.92		R <sub>31</sub> 6		39.734	1	417.59 417.37			
- [	34,475	3	433,56	R, 10			39.930	ı	416.97		R <sub>21</sub> 1	
	34,568	2	433.28	,	Q <sub>2</sub> 14		40.027	4	416.70		Ω47	
	34.788	i	432.61		_		40.117	7	416.43		Ω <sub>2</sub> 6	Q <sub>23</sub> 7]
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- 1	34.944 35.045	3	432,14		n. 1		49.197	8	416.18	R <sub>1</sub> 7		P, 8
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ĺ	35.413	9	430.71		R215	1	40.576	4	415.04		Ω,,6	Half of
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-	35.510	4	436.42		Q <sub>2</sub> 13	. !	40.693	2	414.68		R210	
- 1	35.649	!	429.99	•	. ,,		40.787	2	41 4. 40		Q, 4	
- 1	35.871 35.971	1	429.32 429.02		Q <sub>21</sub> 13 Q <sub>23</sub> 13	P, 4	40.832	6	414.26 413.87	- 1	Ω,,5	
-	36.096	i	428.64		M33,2	' ' '	41.030	6	413.66	- 1	Q <sub>2</sub> ,5 Q <sub>2</sub> 3	P, 9
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ł	36.246	2	428.18		R <sub>2</sub> 4	l	41.133	2	413.34	ì	Ω214	
	36, 332	1 [	427.92	[		[	41.214	1	413.10	[	Ω, 2	1
	36.418	8	427.66	R <sub>1</sub> 9	Q <sub>2</sub> 12	i	41.292	5	412.86	1	Ω234	
	36.520 36.616	6	427.35 427.06		ایر	l	41.376	4	412.61	1	Ω213	
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41.670	3	411.72	ł	Q <sub>21</sub> 1	P, 10	47.793	li	393.17	1	~~	- 20 - 7
41.741	1	411.50	l .			47.891	5	392.87	i	P2311	I
41.820	5	411.26	<b>!</b>	Q232	I	48.014	3	392.56	1	P2,12	i
41.923	l i	410.95	}	-22-	l	48.096	1 -	392.25		P213	1
42.044	8	430.50	, ,		1	40.304	١.	301.03	1	_	l
42.160	1 7	410.58	R, 6	0, 13]	i	48.204	1	391.93		i	l
42.222	4	410.23	•	Ω233	I.,	48.287 48.503		391.67	Ω <sub>18</sub> 7	1	Ī
42.391	ī	409.53	1	l	P, 11		2	391.02	ł	1	ĺ
42.510	i	409.17	i	ļ		48.577	10b	390.80 390.53	Ω, 7	]	
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42.875	1	408.06	Q <sub>12</sub> 12	1	1	48.874	1	289.90	1	Į	
42.973	3	407.77	1	1	P, 13	48.982	2d	389.57	l	ì	•
43.054	1	407.52	\$	1	1	49.060	1	389.33	i	1	i
43.133	1	407.28		ł	j	49.141	5	389.09	R <sub>1</sub> 2	]	
43.199	1	407.08		ł	1	49.215	7	388,87		O <sub>23</sub> 5	
43.259	5	406.90	Q <sub>1</sub> 12	İ	I	49.277	5	388.68	Q <sub>12</sub> 6		l
43.348	2	406.63		[	l	49.395	1	388.32		1	l
43.534	1	406.07	l	l	l	49.530	2.	387.91	1	1	l
43.653	6	405.71		P232		49.645	10	387.57	Ω, 6	1	
43.754	1	405.40		P <sub>2</sub> 3		49.836	1	386.99			
43.852	9	405.10	R <sub>1</sub> 5	- 2 -	1	49.917	i	386.74	İ	l	
43,940	lí	404.83	~3 -	ł	l	50.101	i	386,19		ł	
44.036	2	404.54	Q <sub>12</sub> 11	i	i· ı	50,236	8	385.78	ع. ٥	<b>i</b> ,	
44.176	ī	404.12	~13			50.328	ĭ	385.50	Q <sub>13</sub> 5		
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44.417		403.66		P23.		50.428	2	385.20			
44.838	9	493.39	Q <sub>1</sub> 11	1		50.509		384.95			
44.979	8	402.11		n .		50.600	10ъ	384.68	Q <sub>1</sub> 5		
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45.157	2	401.15	Q <sub>12</sub> 10	}		50.854	6	383.91	R <sub>1</sub> 1		
45.405	1	400.40		1		50.944	1	383,64			
45.538	.8	409.00	Q <sub>1</sub> 10			51.075	1	383.24			
45.581	10	17 399.87	R <sub>1</sub> 4	P235		51.172	4	382.95	Ω <sub>12</sub> 4		
45.640	8	399.69	R <sub>1</sub> 4	P <sub>2</sub> 6		51.267	1	382.66			
45.729	1	399.42				51.400	1	382.26			
45.855	1	399.03				51,534	10	381.85	Ω, 4		
46.005	1	398.58	_			51.668	1	381.45	•		
46.141	10	398.17	[023	P236	P <sub>2</sub> 7]	51.811	1	381.02		l i	
46.236	4	397.05	12:19	1		51.957	1	380.58			
46.419	1	397.33				52.080	9	380.21	Q <sub>12</sub> 3	0237	
46.495	i i	397.10				52.189	í	379.88		-3.	
46.555	2	396.92		P2 8		52.306	i	379.52			
46.612	10b	396.75	Q <sub>1</sub> 9	P237		52.439	10ъ	379.12	Ω <sub>1</sub> 3		
46.735	1	396, 37				52.528	2	378.85	R, O		
46.830	2	396.08				52.619		378.58			
46.934	4	395.77		P2 9		52.726	2	378.25	P1215		
47.042	7	395.44	`R, 3	P238		52.861	ī	377.85	- 1313		
47.135	i	395.16	~, -	- 230		52.991	4	377.45	C <sub>12</sub> 2		
47.214	2	394.92		P <sub>2</sub> 10		53.060	1	377.24	~tz=		
47.269	4	394.69	اه			63 175	4	377 AF	ъ	٠	
	10b	394.37	Ω <sub>12</sub> 8 R <sub>1</sub> 3	P2:9	P, 11]	53.125 53.221	2	377.05 376.76	P <sub>12</sub> 14	P <sub>1</sub> 15]	
47.493	1	394.08		- 237	- 3	53.325	8	376.45	Q <sub>1</sub> Z		
47.565	3	393.86		P <sub>2</sub> 12		53.400	4	376.22	~; ~	0238	
47.650	8	393.60	Q1 8	P <sub>2</sub> 13		53.454	4	376.05	P1213	23,0	
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5753.519 53.636 53.745	1 1 3	17 375.86 375.50 375.18	P <sub>1</sub> 14		5759.517 59.579 59.651	2 1	17 357.76 357.58 357.36	0134	
53.839 53.894	5	374.89 374.73	P <sub>1</sub> 13 Q <sub>12</sub> 1		59.727 59.818	3 10	357.13 356.86	N <sub>1:</sub> 3 O <sub>12</sub> 5	
53.989 54.064 54.119	6 1 3	374,44 374,21 374,05	P <sub>12</sub> 11		59.902 60.024 60.236	1	356.60 356.24 355.60		S <sub>21</sub> 12 S <sub>32</sub> 1
54.166 54.206	9	373.90 373.78	P <sub>1</sub> 12 P <sub>12</sub> 16 Q <sub>1</sub> 1 P <sub>12</sub> 10		66.312 60.421	4	355.37 355.04	0,35	
54.289 54.370	2 9b	373.53 373.29	P <sub>13</sub> 12 P <sub>12</sub> 9 P <sub>1</sub> 11		60.515 60.615	1 8	354.76 354.46	0126	Tal
54.509 54.568 54.618	7 2 10	372.87 372.69 372.54	Pu3 Pu7 P <sub>1</sub> 10		60.738 60.988 61.091	1 1 2	354.08 353.33 353.02	0156	
54.662 54.705	1 6	372.41 372.28	P <sub>12</sub> 6 O <sub>21</sub> 9		61.190 61.276	1	352.72 352.40		
54.760 54.824	10 10	372.12 371.92	P <sub>12</sub> 5 [P <sub>1</sub> 9]		61.395 61.496	10 2	352.11 351.80	O127 N134]	
54.873 54.937	10b	371.77 371.58	P <sub>1</sub> 8 P <sub>12</sub> 1,2		61.659 61.767	1	351.31 350.98		
54.992 55.076 55.132	10 5 10	371.42 371.16 370.99	P <sub>1</sub> 7 Q <sub>1</sub> 0] P <sub>1</sub> 6 P <sub>1</sub> 5 P <sub>1</sub> 0]		61.868 62.033 62.148	1 9	350.68 350.18 349.84	O <sub>13</sub> 7 O <sub>12</sub> 8	S <sub>32</sub>
55.189	10ъ	370.82	P <sub>1</sub> 5 P <sub>1</sub> 0]		62.312	i	349.34	One	
55.399 55.610 55.748	1d 1d	370.18 369.55 369.13			62.450 62.585 62.732	3 2	348.93 348.52 348.08	O <sub>13</sub> 8	
55.854 56.152	3 1d	368.81 367.91	02010		62.876 62.976	9	347.65 347.34	O <sub>12</sub> 9	
56.320 56.492	1d 7	367.40 366.88	Oni		63.071 63.184 63.265	5 1 1	347.06 346.72 346.47	N <sub>13</sub> 5	1
56.865 56.980 57.125	1 4 2	365.76 365.41 364.98	0211	S <sub>21</sub> 13	63.347 63.446	3	346.23 345.93	0139	T,,
57.238 57.342	1 5	364.63 264.32	0,2 0,1]		63.569 63.697	4	345.56 345.17	0,210	1
57.433 57.534 57.668	1 3 1	364.05 363.74 363.34		S <sub>32</sub> 11	64.034 64.150 64.241		34-,.16 247.81 343.54	O <sub>D</sub> 10	
57.808	1	362.92			64.308	2	345,34	O <sub>12</sub> 11	ε,,,
57.931 58.050 58.178		362.54 362.17 361.80	O <sub>11</sub> 2 N <sub>11</sub> 2 O <sub>11</sub> 3 O <sub>11</sub> 3		64.385 64.567 64.691	1 1 2	343.10 342.56 342.18	0,,11	P <sub>31</sub> S <sub>31</sub>
58,325 58,499	1	361.36 360.83			64.758 64.869	2	341.98 341.65	N <sub>13</sub> 6	
58.631 58.723	3	360.43 360.16	0_13		65.038 65.181	1 2	341.14 340.71	S <sub>21</sub> 1	R.
58.840 58.923	1	359.80 359.55			65.312 65.454	3	340.32 339.89	O <sub>13</sub> 12 O <sub>12</sub> 13	
59.008 59.112 59.226	δ 1 1	359.30 358.99 358.64	0114 02513		65.918 65.016 66.140	1	338.49 338.20 337.83	O <sub>13</sub> 13 O <sub>12</sub> 14	Ts
59.303 59.402	i	358.41 358.11			66.252 66.381	1	337.49 337.10	N <sub>13</sub> 7	13   S <sub>M</sub>

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5766.506	2	17 336,73	0-215	•	i l	5772.741	1	17 318.00			1
66.615	1	336.40	1	i	1 1	72.812	1	317.79			ļ
66.757	3	335.97	1.	l	S <sub>31</sub> ?	72.871	3	317.61		R <sub>2</sub> 12	Į
66.842	4	335.71	l	I	R, :3	73.033	3	317,12			1
66.945	1	335.41	1	1		73.136	1	316.81			1
67.070	1	335.03	!	ł	1 1	73.254	2	316,45		Ra 12	l
67.206	2	334.62	<b>,</b>	R <sub>2</sub> 15	1 1	73.365	5	316.13			R,128
67.352	ī	334.18	<b>!</b> :		1 1	73.451	10	315.87		[T <sub>11</sub> 1	S <sub>32</sub> 3
67.472	ī	333.82		i	1 1	73.564	1	315.53		4-11-	1-20
67.572	ī	333.52		(	í í	73.687	1	315,16			ĺ
67.648	2	333,29		ł	1 1	73,796	6	314.84			5,, 3
67.750	4	332.99	1	S <sub>23</sub> 9	1 1	73.843	6	314.69			R. 8
67.878	i	332.60	<b>f</b> 1	i -,, ,	1 1	73.945	l i	314.39			1
67.974	ž	332,31	1	i	R3212	74.045	7	314.09			Į
68.082	1	331.99	N <sub>13</sub> E	i		74.131	2	313.83			
68,197	1	331.64				74.231	,	313,53			
68.320	4	331.27		ł	S12 6	74,340	2	313.20			ł
68.438	3	330.92	1	ì	R <sub>3</sub> 12	74.448	وَ	312.88			p
68.525	í	330.66		ł	1.3	74.535	lí	312.62			R327
68.626	2	330.35			1 1	74.606	5	312.41		R, 11	l
(0.505	_	222	1	· .	1, 1	74 774	١. ١			_	
68.707	5	330.11		[T313	S <sub>31</sub> 6	74.724	1	312.05		İ	1
69.154	1	328,77		R <sub>2</sub> 14	] ]	74,824	2	311.75	1		R,7
69.348	1	328,18			1 1	74.911	9	311.49		[R, 7	S <sub>33</sub> 2
69.479	4	327.79			R <sub>32</sub> 11	74.995	7	311.24	S21 6	Re111	}
69.576	1	327.50				75.097	1	310.93			
69.694	2	327.15	N29		1 1	75.233	3	310,53			5,,2
69.840	1	326,71			R3111	75.307	2	310.30			1
69.943	6	326.40	1		R <sub>2</sub> 11	75.409	6	310.00			R <sub>16</sub> 6
70.045	1	326.09	į į		1	75.492	1	309.75			
70.152	8	325.77		i	S <sub>32.5</sub>	75.570	-	309.52			T310
70.250	3	325,54		S <sub>21</sub> 8	1	75.721	1	309.06			1
70.329	1	325,24		•	1 1	75.811	2	308,79			R3,6
70,420	ī	324.97			1 1	75.899	5	308.53			R, 6
70.521	3	324.66			S <sub>33</sub> 5	75.975	1 1	308.30			,-
70.634	i	324.32		ĺ	-33-	76.087	2	307.97			ĺ
70.759	,	323.95				76.218	10	307.58			S <sub>32</sub> 1
70.878	3	323.59		·	R <sub>32</sub> 10	76.250	10	307.48		R <sub>2</sub> 10	R <sub>32</sub> 5
70.962	ĩ l	323.34		ł	1	76.388	3	307.07			
71.049	3	323.08		R, 13	[ {	76.522	4	306.66			S31 1
71.153	3	322.76		"	TuZ	76.640	6	306.31	R <sub>1</sub> 13	R <sub>21</sub> 10	R315
71.246	,	322.49			R <sub>31</sub> 10	76.747	8	305.99		-	R, 5
71.342		322.20			R <sub>2</sub> IU	76.852	ĭ	305.68	1		,,,,,
71.435	4 2	321.92		R <sub>21</sub> 13		76.957	6	305.36			R324
71.547	ī	321.58			!!	77.102	i	304.93	· .		""
71.743	ī	320.99				77.244	8	304.50		S <sub>21</sub> 5	1
71.864	7	320,63		;	S	77.386	2	204.35		_	
71.961	i	320.34			S <sub>32</sub> 4	77.470	5	304.08 303.82	- 1		R314
72.060	i i	320.04				77.539	8	303.82	- 1		R, 4
72.174	6 1	319.70		1	R329	77.658	ů	303.26	j		R333
72.239	5	319.51			S <sub>31</sub> 4	77.754	i	302.97			
77 270	,	310 24	1		{	77 575	_ [	(	1		۱
72.328	1	319.24			.	77.875	6	302.61	}	R <sub>2</sub> 9	R,13
72.411	2	318.99				77.974	4	302.31	1		R32
72.491	1	31 8. 75				78.085	6	301.98	}		R <sub>3</sub> 3
72.566	10	318.52 318.29		S <sub>21</sub> 7	R <sub>31</sub> 9 R <sub>3</sub> 9	78.173 78.253	j B	301.72 301.48	ł	R219	1

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1	ı		C.	assificat 11-7	don i	۱ ۱	1		CI	assificat	tion
5778,295	7	17 301.35		R <sub>M</sub> 2	C <sub>3</sub> 15	5783.627	5	17 285.40		S <sub>21</sub> 2	
78.383	li	301.09	1	1. "NE	(23.3.)	83.727	ī	285.10		211	ŀ
78.503	l i	300.73	•		1 1	83.827	l ž	284.80			ŀ
78.590	ż	300.47	•	1	R, 2	83.917	10	284.54	l i	R <sub>21</sub> 5	i
78.673	li	300.22	1		[.,]	84.004	l i	284,28	i i	810	
10.013	1 *	300.22			1	1	{ -		1		
78.753	3	17 299.98	R, 12	i	l 1	84-077	6	284.06		Q <sub>2</sub> 13	l
78.952	ī	299.39				84.346	1	283.25	i i		1
79.049	l i	299.10	1		l i	84.448	2	282.95	1	Q <sub>21</sub> 13	ł
79.113	l š	298.90	i i	l l	Q <sub>5</sub> 14	84.540	2	282.68		Ω <sub>23</sub> 13	Ì
79.230	1	298.55		i	*	84.643	1	282.37			P3 4
1	1	•		•		1	1 _ 1				
79.322	1	298,28	}	1		84.784	3	281.95		R <sub>2</sub> 4	Ì
79.389	4	298.08	l	3. 8	Q <sub>12</sub> 13	84.856	10	281.73	R <sub>1</sub> 9		ł
79.443	5	297.92		521 4		84.968	5	281.40		Q 12	Ī
79.547	1 1	297.61		ŀ	1	85.069	1	281.09			
79.668	1	297.24				85.155	8	280.84		R <sub>21</sub> 4	
	١.		<b>i</b>		•	1 05 246	١.	300 57	1		
79.779	8	296.91	1	3,118		85.246 85.323	1 4	280.57			
79. 845	8	296.71	l .	1	Ω, 13	85.431	2	280.33	Q <sub>1</sub> 17	Q <sub>21</sub> 12	•
80.023	1 !	296.18		•	Q <sub>32</sub> 12	85.514	١î	280.01	1	Ω <sub>33</sub> 12	1
80.216	1 1	295.60	ļ		1	35.600	l a	279.76 279.51	1	e 1	
80.347	1	295,21			1 1	] 37.000	, ,	417.31		Sati	
80,466	5	294,86			C <sub>3</sub> 12	85.691	1	279.24	1		
80.532	2	294,66	•	i	$Q_{12}$ i I	85.780	8	278.97	<u> </u>	Q <sub>2</sub> 11	1
80.619	2	294.40	1	1	Q <sub>32</sub> 3	85.866	li	278.71	j	-4	l
80.720	2	294,10	Ì	1	~31°	85.956	1 4	278,45		R <sub>2</sub> 3	P, 5
80.838	1 5	293.74	R, 11	R <sub>2</sub> 7		86.057	i	278.14	1		.,,
	1	",","		•		1					Ì
80.918	l ı	293.50	1	Q 16	1	86.167	3	277.82	}	C2111	1
80.995	9	293,27	Ì	1	Q, 11	86.244	3	277.59		Q <sub>23</sub> 11	l
81.074	l i	293.04		1	Q <sub>38</sub> 4	86.321	10	277.35		R213	
81.155	4	292,79		1	Q <sub>3</sub> 3	86.424	1	277.05			
81.236	. 9	292.56	Ī	R <sub>22.</sub> 7		86.521	5	276.76	1	Q <sub>2</sub> 10	
[	,	1			1	1					Į.
81.281	1	292,42	1	1		86.636	1 1	276.41			i
81.347	4	292.22	i e	}	Q <sub>12</sub> 5	86.735	3	276.12	Ω <sub>1</sub> 16		
81.429	6	291.97		١.	Ω, 10	86.810	6 2	275.89	R <sub>1</sub> S		
81.496	2	291,77	10		Ω,,,6	86.901 86.994	2	275.62 275.35	i	Ω <sub>110</sub>	l
81.568	9b	291:56	[Ω, 4	5 <sub>22</sub> 3	Ω,,7	00.777	1 "	215.55		Q <sub>23</sub> 10	
81,662	lı'	291.28	i	1	1	87.113	2	274.99	1		P3 6
81.743	9	291.04	ļ.	ĺ	Ω, 9	87,190	وا	274.76	1	Q <sub>2</sub> 9	1.,.
81.852	á	290.71	}	1	Q.	87.310	l i	274.40	1		l
81.940	6	290.45		1	Q, 8	87.417	6	274.08		Raiz	
82.007	10	290.25		(0, 4	0,7	87.473	3	273.92	1	5210	
	1		}		1	ì	1	1			i
82.037	9	290,16	1	Cq 15	! 1	87.577	4	273.61	1	Q219	l
82.075	1 1	290,05	l		, 1	87.663	5	273.35	t i	Q219	l
82.142	1	289.84	1	١		87.785	5	272.98		Ω <sub>3</sub> 8	ł
82.222	3	289.60	ì	K, b		88.014	1	272.30	ا بر ا	1	l
82.311	2	289,34	Ì	!		88.113	8	272.01	Q, 15		l
82,448	2	269.93		•	1	38.168	l a	271,84		Δ8	P, 7
82.538	ĩ	288.66		}	!!	58.246	3	271.61		Q218 Q218	[ " "
82,610	8	288.44		<b>3.</b> 6	1	88.307	ĺ	271.43		Q 7	1
82,737	l i	288.06		1		88.376	li	271.22		~*`	1
82.860	4	287.70	R <sub>1</sub> 10	j		88,438	8	271.04		R <sub>M</sub> 1	i
1			•	•		1	ı	1			l
82.977	1	287.35			[	88.515	1	270.81			l
83,112	3	286.94		C <sub>3</sub> 14		88.605	1	270.54			l
83,208	1	286,65		i		88.698	10	270.26	l i	Q117	l
83.436	1	285.97		١		88.736	10	270.15	R <sub>1</sub> 7	Ω, 6	i
83.542	5	285.66		入 5		88.790	10	269.99		Ω2,7	l
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	7	I	۳	L	11-7		λ	I	•		11-7	
578	5.884	1	17 269.71				5794.845	1	17 251.94			1
	<b>3.</b> 962	1	269.47	1	ł	i i	94.910	2	251.75	1	1	l
9	9.066	3	269.16	ł	[	P, 8	94.981	10	251.54	Q <sub>13</sub> 9	P256, P27	022]
€	9.142	8	258.94	ì	Ω216	Q <sub>2</sub> 5]	95.125	1	251.11		2-1-2.	_D_,
8	5.247	5	261.62	<b>!</b> .	Ω <sub>23</sub> 6		95.250	2	250,73	l	1	Ì
8	9.360	2	268.29		Raio	1	95.359	106	250.41	Ω, 9	1	
	7.136		256.05	Q <sub>1</sub> 14	() <sub>2</sub> 4	1	95.487		250.03	~, ,	P <sub>2</sub> 8	D 71
	9.516		267.82	-,	Q225		95.638	1	249.58	ł	1.20	P2:7]
	9.642	9	267.44		Q <sub>25</sub> 5		95.729	1	249.31		ł	}
8	5.716	2	267.22		Q <sub>2</sub> 3		95.826		249.02		P2 9	
5	9.803	2	266.96		Ω214		95.928	7	248.72		Pn8	
	9.853	5	266.82		21	P, 9	96.031	4	248.41	Q <sub>12</sub> 8	* B*	
8	9.975	4	266,45		Ω234	]	96.129	10	248,12	R <sub>1</sub> 3	P. 10	
	0.057	4	266.21		Q113	1 1	96.219	l'i l	247.85	-4	1,10	
91	9.163	1	265.89			i i	96.299	ŧ0	247.61		P299	
91	0.256	9	265.61		Q23	1	96.358	3	247.44		1	
	3.320	3	265.42		$\Omega_{21}$	!	96.422	10	247.25	Ω <sub>1</sub> 8	P <sub>2</sub> 11	
	0.413	i	265.13		~41.	j	96.513	4	246.97	<b>™</b> 1 0	20 12	
	0.518	8	264.83		CzsZ	P, 10	96.595	10	246.73	[0234	P <sub>2</sub> 12 P <sub>2</sub> 13	D. 103
	0,619	7	264.53	R <sub>1</sub> 6	-0-	-, -,	96.720	i	246.36	1~333	-, 13	P2310]
9:	<b>0.</b> 707	9	264.27	Q <sub>1.</sub> 13			96.825	8	246.05		<b> </b>	
	0.785	lí	264.04	141.13		i i	96.902	l i l	245.82		P <sub>23</sub> 11	
	0.863	9	263.80		Q <sub>23</sub> 1	1	96.977	5	245.60			
	3.962	Ιí	263.51		H23.	l į	97.063	10	245.34	0.7	P2:12	
	1.087	6	263.14		;	P, 11	97.454		244.18	Ω <sub>12</sub> 7 Ω <sub>1</sub> 7	P <sub>23</sub> 13	
۱ .,	1.201	١, ١	262,80				07 (03	١. ا	i			
	1.407	1	262.18	j			97.683 97.837		243.49		1 1	
	1.539	4	261.79			5 12	57.924	7	243.04		3 1	
	.768	1	261.11		P2 2	P <sub>3</sub> 12	57.995		242.78	R <sub>1</sub> 2		
	879	5	260.77		F <sub>2</sub> L	P, 13	98.072	6	242,57 242,34	Q <sub>12</sub> 6	! !	
	.934	7	260.61				00.153	8				- 1
	.028	l i l	260.33	Q, 12		1	98.153 98.250		242.10		O <sub>23</sub> 5	1
	.133	اذا	260.02			5	98.345	1 1	241.81		l 1	- 1
	196	lil	259.83	1		P <sub>3</sub> 14	98.451	10	241.53	~ .	l ł	1
	.275	5	259.59	1		P, 15	98.617	i I	241.21	Q <sub>1</sub> 6		1
1	.329	2		l	ł				i			1
	.403	7	259.43 259.21	i	9.9	i	98.955	1 9	239.71		}	1
	.481		256.98	R, 5	P212	]	99.058		239.41	Q <sub>12</sub> 5		į
	605	l i	258,61	,	1	1	99.172	1 2d	239.07	1	1	ł
	.723	4	258.26	Q <sub>12</sub> 11		1	99.362	2	238.73 238.50			- 1
٥٧	.666	1	257.83	l	- 1	- 1	i I	•	1		ļ į	l
	.956	i	257.57	į	- 1	1	99.404	10	238.36			Į
	.040	3	257.32		ł	1	99.457	10	238.22	Q, 5		- 1
	.111	106	257.11	Ω, 11	p. 3	1	99.557	9	237.92	<u>, .</u>	ا ا	i
	.265	ì	256.65	۳, ۱,	P <sub>23</sub> 3 P <sub>2</sub> 4	1	99.673 99.780	ĭ	237.58	R <sub>1</sub> 1	O <sub>23</sub> 6	ļ
0.3	.662	1	255 16	- 1	_	1	1 1	. 1		į		į
	.776	10	255, 46 255, 12	- 1	P214	[	99.909 5800.016	1	236.88	ا م	i	ł
93	.882	4	254.81	Q1110	P <sub>2</sub> 5	- 1	00.100	2	236.56	Q <sub>13</sub> 4	1	- 1
	.114	i	254.12	-u."			00.257	i l	236.31 235.84	1		J
	.256	10	253.70	Q <sub>1</sub> 10	1	- 1	00.385	10	235.46	Ω, 4		1
Q.I	.324	7	253.50	R, 4		-	60 600	١, ١	i			j
	.408	10ъ	253.24	wi	Pz5	- 1	00.690 00.831	2	234.56		[	İ
	.491	i	252.99	Ì	P. 6		00.962	9	234,14			1
	.591	· i	252.70	j	- 2 -	1	01.040	<i>i</i> 1	233.75	Ω123	ŀ	ł
	. 724	i	252.30	1	1	i	01.107	9	233.32	ł	0.7	1
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5801.236	3	17 232.93	i			5806.290	1	17 217.93				
01.291	10	232.77	0.3	1	11	06.368	7	217.70	0,22	O <sub>1</sub> 1]		1
01.291	10	232.64	Q <sub>1</sub> 3	ł	11	26.492	i	217.33	0130	7017		
		232.46	B 0	1	11	06.586	3	217,06		1		
01.395	1 1		R <sub>1</sub> 0	•	11	06.672	1 3	216.80				
01.492	1	232.17		1	11	00.012	, ,	210.80			1	
01 611	2	231.82	•		1	06.810	2	216.39			1	
01.611	ī	231.58	i	1	1 1	06.931	2	216.03			1	
01.690	4		73.15	ł	1	97.000	2	215.83	0.3	1	. 1	
01.745	i	231.42	P215	Ī	1	07.131	2		O132			
01.825	4	231.18 230.99	Ω122	1	11	07.237		215.44 215.13	N <sub>15</sub> 2	0212	l	
01.507	7	230.77	HILL		1	[ 57.2.7	1.0	213.13	0123	2312		
01.971	1	230.75	i i	1	1	07.788	5	213,49	0,,3			
02.064	i	230.47		ļ	11	07.937	10	213.05	-D2-		1 3	
02.145	6	230.24	P1214	P, 15]	1.	08.094	9	212,58	0,24	1 1	i i	
02.230	9	229.98	Q, 2	• • • • • • •	11	08.200	lí	212.27	012.	1 1		
02.363	li	229.59	-12 -		[ ]	08.305	5	211.96	1	0213	1 1	
02.303	•	,:5/	1	1	1	1 00.505	-	/0		20.0	1 1	
02,479	9	229.25	P1213	028		08.393	1	211.70	!	, ,	į į	
02.534	4	229.08	P, 14		1	08.517	î	211.33	i '	1 1		
02.635	ī	229.76	- 4		1	08.615	-	211.04	0134	1 1	1 1	
02.749	4	228.45	F1212	1		08.692	i	210.81	013.			
02.811	5	228.26			- 1	08.763	l ž	210.60		1 1		
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02.868	7	228.09	P <sub>1</sub> 13		]	08.833	5	210.40	N113	1 1		
02.936	Ż	227.39	P <sub>11</sub> 13		1	08.936	105	216.09	0115	1 1	1 1	
02.995	8	227.71	P <sub>12</sub> 11		1	09.060	2	209.72	-14-		i 1	i
03.051	Ž	227.55	1 - 14 1		i	09.153	1	209.45	l			
03.114	96	227.36	ត្ស 1			09.245	3	209.18	ı	02:14		
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03.158	2	227.23	P, 12		1	09.357	1	208.84		: 1		
03.201	7	227.10				09.442	6	208.59	0135	1 1	1	1
03,243	2	226.98	P <sub>13</sub> 12		. 1	09.600	2	208.12	j	1 1		l .
03.276	l i	226.88	· · ·		1	C9.764	9	207.64	0,16			
03.306	2	226.79	i i		1	09.937	li.	207.13		1 1		
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03.369	10ъ	226.60	P <sub>1</sub> 11	P129]	1	10.119	2	206.58	1	O215		ŀ
03.438	1	226.40	i			10.262	3	206.16	0136	-		
03.492	7	226.23	P <sub>12</sub> 8		1	10.400	1	205.75	_	1 1		ł
03.55C	2	226.07	-		1	10.575	10b	205.24	0,27	N <sub>15</sub> 4]		l
03.593	10	225.93	P, 10	P <sub>12</sub> 7]	1	10.763	1	204.68		1		1
	1 .	1			1		1.		1			İ
03.676	В	225.69	P126			10.922	1	204.21		02316		l
03.740	105	225.50		P <sub>12</sub> 4, 5]	1	11.057		203.81	0,,7		1	l
03.820	10b		P <sub>13</sub> 1-3	0239	}	11.166		203.49		1		
03.883	5	225.08				11.290		203.12		1 1	1	1
03.937	4	224.92	Q <sub>2</sub> 0			11.368	9	202.89	O <sub>12</sub> 8	1		
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03.979	110	224.79	P. 7	22 43		11.629	1	202.12	I	0217	l	1
04.065	10	224.54	516	P. O	1	11.729		201.82	١	1	32, 11	ŀ
04.113	10	224.40 224.36	12.	P <sub>1</sub> 1]	1	11.833		201.51	0,35	j	1	ŀ
04.159	10	223.40	12.4			11.977		201.09	100	1		į .
04.352	1	225.68	P <sub>13</sub> 3	1		12,121	10	200.66	0,19	1	ı	ŀ
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04.897	l i	222.06			! 1	12,295		200.14	N <sub>13</sub> 5	1	•	l
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05.198	i	221.14	]	~23.0	j 1	12,601		199.24	0,39	1	•	1
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05.489	9	220.31	0121			12.853	7	198.49	0,110	k	ŀ	1
05,644	li	219.85				13.167		197.56	1 -13.0	1	ł	1
05.994	li	218.81	(			13,331		197.08	0,,10	k	I	ł
06.120	li	218.44	1			13.461		196.77	1	1	1	1
06.202	1	218.19	]	0211		13.553		196.42	0,211	1	i	ł
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13.754	i	195.83		-	20.293	1 1	176.52	1	ı
13.863	i	195.51		K I	20.401	3	176.20		R110
14.024	5	195.13	المالية أما	١ ا	20.401	3		١., .	
	i		O <sub>13</sub> 11 N <sub>13</sub>	<b>~</b> {	20.490		175.94	R <sub>2</sub> J	٠,
14,123	١ ٠	194.73			20.570	1	175.70		İ
14.211	1	194.47	0,212	H	20.669	3	175.41		TaiZ
14.320	1	194.15	- 1	h 1	20.761	t I	175.14		3
14.416	2	193.87	1	S21 10	20.829	1	174.94		R3110
14.486	2	193.66		n 1	20.878	5	174,79	R21	
14.599	1	193.33		1 1	20.982	1	174,48		
14.723	1	192.96		1 1	21.148	1	174.00		ł
14.840	5	192.62	Ou:12	F 1		l i		1	ł
			O <sub>13</sub> 13	1 1	21.296	6	173.56	! !	ا م
14.940	1	192.32	1	9 1	21.413		173.21	<b>!</b>	S <sub>32</sub> 4
15.066	Z	191.95	1 1	1 1	21.532	1	172.86	i i	Ī
15.149	2	191.70	l		21.633	3	172.57		İ
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15.401	2	190.96	Oi214	11	21.789	3	172.10	i i	S31 4
15.503	2	190.65		T314	21.893	1	171.80		1 "
15.629	1	190.29	i 1	1 1	21.992	2	171.50		1
15.750	9	189.93	N <sub>13</sub> 7	S <sub>32</sub> 7	22.082	7	171.24	S <sub>21</sub>	7
15.849	1	139.63	1	1 I	22 147	1	171 05	1	1, ,
	3		A 16	N 1	22.147	1 7	171.05		R,19
15.955	1	189.32	O <sub>12</sub> 15	(f	22.215		170.85	!	R, 9
16.041		189.07		·	22.356	2	170,44	R <sub>2</sub>	14 !
16,132	2	188.80		S <sub>31</sub> 7	22.476	1	170.08	1	- i
16.256	4	188.43	l I.	R, 1	22.556	1	169.84	1	
16.336	1	188.20		1 1	22.647	1	169.58	1	ì
16,427	2	187.92	'	# I	22.751	2	169.27	R21	12
16,530	2	187.62		R <sub>2</sub> 15	22.865	1 ı	168.93	""	1
16,643	1	187.29		-	22.964	5	168,64	1	R328
16.777	1	186.89		1 1	23.044	10	168.40	[T31	S <sub>32</sub> 3
16.862	1	186.64	1	1	23.175	1	160.07	1	
16.927	Ż		l i	n .el			168.02	1 1	1
		186.45		R <sub>21</sub> 15	23.328	1	167.57	i 1	1
17.048	4	186.09		S21 9	23.400	5	167.35	] }	S <sub>31</sub> 3
17.247 17.390	1 2	185.50 185.08	.	R321	23.445	5	167.22	i l	R, 8
		105.00			11 223	١.	100.09		l
17.465	2	184.86	N <sub>13</sub> 8		23.722	1	166.40	1	i
17.610	1	184.42	-	) I	23.823	1	166.10	1	1
17,754	5	- 184.01	l i	S126	23.914	2	165.84	!!!	1
17.892	2	183,60	1	R, 1.		2	165.64	1	- 1
18.042	2	183.16			24.076	8	165.36		R337
18,148	6	182.84	-	T313 S316	24.146	5	140.14	_	- 1
18,407	ı	182.07	1 1	T <sub>31</sub> 3 S <sub>31</sub> 6			165.16	R <sub>2</sub>	•• ]
	١i		} }	اذر وا	24.239	1 !	164.88	}	ł
18.555	li	181.64		R <sub>2</sub> 14	24.345	1	164.57	1 1 .	,
18.706	li	181.13	·	. 1	24.470	5	164.20	S <sub>21</sub>	
18.856	١.	180.75	.	*	24.553	109	163.96	[S <sub>38</sub> 2   R <sub>21</sub>	11 R, 7
18.959	5	180.45		R2114 R321	24.756	2d	163.36		
19.072	1	180.11	·	∦ . I	24.889	3	162.96	i	S <sub>31</sub> 2
19.167	3	179.83	N139	# I	24.986		162.69	1	1
19.300	1 2	179.44	·  .		25.070		162.43		R326
19.433	6	179.03		R, 1	25,149	1.	162,20	1	
19.512	2	.178.81	•		25.231	6	161.96	-	T,,O
19.584	2.	178.60	·	S21 8	25.328	1	161.67	1 1	1 "
19.642	9	178.43		S <sub>12</sub> 5	25,411	l i	161.43		1
19.882	1	177.80			25.476	2	161,24		R <sub>3:</sub> 6
20.023	3	177.31	l 1	S <sub>32</sub> 5	25.570	5	160.96		R, 6
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25.842   2   160.16	S <sub>21</sub> 3 C Q <sub>32</sub> 6 C C Q <sub>2</sub> 15 C	Ω <sub>32</sub> 5 Ω <sub>32</sub> 8 Ω <sub>3</sub> 4 Ω <sub>5</sub> 9 Ω <sub>5</sub> 5 Ω <sub>5</sub> 8 Ω <sub>7</sub> 7
25.761	S <sub>21</sub> 3 C C <sub>32</sub> 6 C C <sub>21</sub> 15 C	Q328 Q34 Q39 Q35 Q36
25.842 2 160.16 159.99	Ω <sub>1</sub> 6 C	Q <sub>3</sub> 4 Q <sub>5</sub> 9 Q <sub>5</sub> 5 Q <sub>5</sub> 8 Q <sub>5</sub> 6
25.898   10	Ω <sub>2</sub> 15 Ω R <sub>8</sub> 6	Ω <sub>3</sub> 9 Ω <sub>3</sub> 5 Ω <sub>3</sub> 8
25.933   12   159.89   [S <sub>32</sub> 1   R <sub>14</sub> 5   31.504   1   143.50	Ω <sub>2</sub> 15 Ω R <sub>8</sub> 6	Ω <sub>3</sub> 9 Ω <sub>3</sub> 5 Ω <sub>3</sub> 8
26.035 1 159.59 25.125 6 159.32 26.209 4 159.08 26.255 4 158.94 26.331 1 158.72 26.331 1 158.72 26.444 9 158.97 26.552 1 158.07 26.669 7 157.72 26.669 7 157.72 26.744 1 157.50 26.825 8 157.27 27.108 6 156.56 156.20 28.14 26.20 27.132 1 156.50 27.132 1 156.50 27.132 1 156.50 27.132 1 156.50 27.132 1 156.20 28.14 27.188 6 156.20 28.14 27.188 1 10 143.20 31.667 2 143.02 31.667 2 142.88 31.715 9 142.88 31.715 9 142.88 2 142.72 31.715 9 142.88 2 142.72 31.715 9 142.88 2 142.72 31.715 9 142.88 2 142.72 31.715 9 142.88 2 142.72 31.715 9 142.88 2 142.72 31.715 9 142.88 2 142.72 31.815 7 142.58 2 142.72 31.815 7 142.58 2 142.72 31.815 7 142.58 2 142.72 31.815 7 142.58 2 142.72 31.815 7 142.58 2 142.72 31.873 10 142.42 31.904 10 142.33 31.904 10 142.33 31.904 10 142.42 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 31.904 10 142.33 3	Ω <sub>2</sub> 15 Ω	Ω <sub>3</sub> 5 Ω <sub>3</sub> 8 Ω <sub>3</sub> 6
26.125   6   159.32	Ω <sub>2</sub> 15 Ω	Ω <sub>3</sub> 5 Ω <sub>3</sub> 8 Ω <sub>3</sub> 6
26.209   4   159.08	Ω <sub>2</sub> 15 Ω	Ω <sub>3</sub> 8 Ω <sub>3</sub> 6
26.255 4 158.94 R <sub>31</sub> 10 R <sub>31</sub> 5 31.768 2 142.72 142.58 C  26.444 9 158.39 R <sub>3</sub> 5 31.815 7 142.42 12.66.669 7 157.72 R <sub>31</sub> 4 31.904 10 142.33 11.977 1 142.11 126.825 8 157.27 S <sub>31</sub> 5 32.064 2 141.85    26.911 1 157.01 27.030 2 156.66 R <sub>3</sub> 4 32.358 9 140.99 27.132 1 156.36 R <sub>3</sub> 4 32.358 9 140.99 27.188 6 156.20 R <sub>3</sub> 4 32.522 4 140.51 R <sub>3</sub> 10	Ω <sub>2</sub> 15 Ω	Ω <sub>3</sub> 8 Ω <sub>3</sub> 6
26.331   1   158.72	Ra 6	Q, 6
26.444 9 158.39	Ra 6	Q, 6
26.552   1   158.07   26.669   7   157.72	Ra 6	Q, 6 Q, 7
26,669	Ra 6	Q, 6 Q, 7
26.744   1   157.50     31.977   1   142.11   157.50     26.825   8   157.27     8 <sub>32</sub> 5     32.064   2   141.85     141.85     26.911   1   157.01   27.030   2   156.66   27.132   1   156.36   27.188   6   156.20     R <sub>2</sub> 4   32.358   9   140.99   E   140.73   27.188   6   156.20     R <sub>2</sub> 4   32.522   4   140.73   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R <sub>2</sub> 10     10.51   R	Ra 6	Q, T
26.825 8 157.27		
26.911 1 157.01 27.030 2 156.66 P.14 32.358 9 140.99 F.27.132 1 156.36 32.445 1 140.73 27.188 6 156.20 R.4 32.522 4 140.51 R. 10	P. 6	
27.030 2   156.66	8.6	
27.030 2   156.66	D. 6 1	
27,132 1   156,36     32,445 1   140,73     27,188 6   156,20     R <sub>4</sub> 4   32,522 4   140,51 R <sub>3</sub> 10	AZIV I	
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27.388 1 155.61 32.916 4 139.35	0.14	
27.498 5 155.28 R <sub>2</sub> 9 33.184 2 138.56	Ca 14	
27.612 2 154.95 R <sub>21</sub> 3 33.248 1 138.37	1	
1 am mag 1 1 am 22 1 1 22 11 2 2 2 2 2 2 2 2 2 2 2 2 2	R <sub>2</sub> 5	
1 44/44/14 1 44/44/1 1 17/4/11 17/4/11 17/4/11	8212	
	- 1	
27.896 7 151.11 R <sub>81</sub> 9 33.552 2 137.48 27.984 2 151.86 33.628 1 137.26	- 1	
28.074 5 15J.59   R <sub>31</sub> 2   33.705 10d 137.03   F 25.192 2 153.24   33.′ 0 1 136.66	R215	
	Q. 13	
	1	
28.501 15d 152.33 34.041 1 136.04 28.653 1 151.88 34.183 1 135.63	1	
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1 44 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	[	
28.843 1 151.33 34.407 3 134.97 28.913 4 151.12 34.483 1 134.75	C <sub>23</sub> 13	
	-	
29.074 7 150.64 [S <sub>11</sub> 4   R <sub>8</sub> 8   34.568 10 134.50 R <sub>1</sub> 9 F	Rg 4 1	P, 4
29.140 3 150.45 Q <sub>22</sub> 13 34.724 1 134.04		-
29,323 1 149,92 34,834 1 133.1 C	Q <sub>2</sub> 12	
33.077 1 133.52	_ , 1	
29.535 1 149.29 34.974 8 133.31 F	Rai4	
29.613 8 149.06 Q, 13 35.056 1 133.06	1	
29.724 1 148.73 35.136 3 132.83	ĺ	
29.846 2 148.38 Q <sub>32</sub> 12 35.226 1 .32.57 C	Q2112	
29.96 6 148.01 35.320 2 132.29 0	Ω2312	
30,134 1 147,53 35,426 8 131,98 5	Sall	
30.308 5 147.01 Q <sub>3</sub> 12 35.510 3 131.73	1	
30.375 2   146.82     Q <sub>22</sub> 11     35.597   1   131.51	1	
$\begin{bmatrix} 30.438 & 7 & 146.63 & R_1 & 11 & Q_{11} & 35.664 & 8 & 131.28 & Q_{12} & Q_{13} & Q_{14} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} & Q_{15} $	Ω, 11	
30.554 5   146.29   R <sub>3</sub> 7     35.809   3   130.86   F	R <sub>2</sub> 3	
30.645 1 146.03 35.873 1 130.67	- 1	
30.757 2 145.70 35.943 3 130.46	,	P, 5
30.845 8 145.44 [O <sub>32</sub> 4 O <sub>3</sub> 11 36.066 3 130.10 g	Ω <sub>11</sub> 11	•
30.945   9   145.15     R <sub>22</sub> 7       36.137   2   129.89     C	O2311	
31.005 4 1 144.97 -   C, 3   36.170   10   129.79   F	R213	
31.124 4 144 62   Q <sub>32</sub> 9   36.300 1 129.41	- 1	

1	1	Ι.	C	assifica 10-6	tion		Τ.	Γ	C	lassifica	tion
5836.418	5	17 129.07		Q <sub>2</sub> 10	T	λ 5841.475	2	17 114.24	Q <sub>12</sub> 12	10-6	T
36.494 36.578 36.709	7 1	128.84 128.60 128.21	Q <sub>1</sub> 16 R <sub>1</sub> 8			41.612 41.729 41.808	3	113.84 113.49 113.26	-д	P2 2	P, 12
36.817 36.902	3	127.90 127.65		2210		41.888	8	113.03	Q <sub>1</sub> 12	-,,-	
37.026 37.100	1 8	127.28 127.07		Ω <sub>23</sub> 10		41.980 42.082 42.167	5	112.76 112.46 112.21			P, 13
37.208 37.301	6	126.75 126.48		R212	P3 5	42.279 42.391	1 10	111.88 111.55	R <sub>2</sub> 5		}
37.358 37.428	2	126.31 126.10		S <sub>22</sub> O		42.442 42.515	9	111.40 111.19		P <sub>25</sub> Z	
37.501 37.583 37.649	4 5 1	125.89 125.65 125.45	Q <sub>12</sub> 15	Ω239 Ω219		42.602 42.693 42.862	1 4 1	110.94 110.67 110.17	Q <sub>13</sub> 11	P <sub>2</sub> 3	
37.769 37.837	5	125.28 124.90		Q 8		42.969 43.094		109.86 109.49	Q, 11		
37.971 38.042 38.106	6 1 4	124.51 124.30 124.12	Q <sub>1</sub> 15	R <sub>2</sub> 1 Q <sub>21</sub> 8		43,161 43,325 43,551	10 0 1	109.29 108.82 108.16		P <sub>2</sub> 3 P <sub>2</sub> 4	İ
38.202 38.250	9	123.83 123.69		Ω <sub>23</sub> 8 Ω <sub>3</sub> 7	P3 7	43.739 43.864	1	107.61 107.24	Q <sub>12</sub> 10	Pp4	
38,353 38,442 38,541	7 1 9	123.39 123.13 122.84	R, 7	R <sub>21</sub> 1		44.003 44.127 44.268	2 1 10b	106.83 106.46 106.06		P <sub>3</sub> 5	
38.631 38.727	5	122.57 122.29	. '	Q <sub>21</sub> 7 ∩ <sub>25</sub> 7	Q, 6]	44.386 44.515	1 10ь	105.71	ည္ 10	R <sub>2</sub> 4]	
38.829 38.924	1 2 2	121.99 121.72	Q <sub>12</sub> 14	, 23,	ا (د	44.610 44.857	1	105, 34 105, 06 104, 33		P <sub>2</sub> 5 P <sub>2</sub> 6	
39.026 39.093	3	121.42		Q <sub>21</sub> 6	Ω <sub>2</sub> 5]	44.983 45.107	7 10ъ	103.97	Q <sub>12</sub> 9	Pn6	O <sub>23</sub> 3]
39.198 39.342 39.411	5 2	120.91 120.49 120.29	Q <sub>2</sub> 14	Ω116 R210 Q1 4	P, 8	45.145 45.242 45.379	3	103.49 103.21	•	P <sub>3</sub> 7	OHOI
39,475 39,605	7 9	120.10 119.72		Q <sub>23</sub> 5		45.520	1	102.40	Ω <sub>1</sub> ?		
39.678 39.785	2 4	119.50 119.19		Ω <sub>23</sub> 5 Ω <sub>2</sub> 3 Ω <sub>21</sub> 4		45.640 45.774 45.908	10b 1 1	102.04 101.65 101.26		P237	P <sub>2</sub> 8]
39.859	6	118.97 118.74		Ω <sub>2</sub> 2 Ω <sub>23</sub> 4		46.010 46.091	6 10	100.96 100.71	Ω <sub>12</sub> 8	P <sub>2</sub> 9 P <sub>23</sub> 8	
39.980 40.031 40.109	76	118.62 118.47 118.24		Q <sub>21</sub> 3	P3 9	46.139 46.238	10	100.58 100.29	R <sub>1</sub> 3		
40.180	ž lu	118.03 117.87	Q <sub>12</sub> 13	Ω <sub>21</sub> 2 Ω <sub>23</sub> 3		46.332 46.417 46.483	4 2 10b	100.02 17 099.77 099.58	Q <sub>1</sub> 8	P <sub>2</sub> 10	
40.345	1 .	7 55 31		Qui		46.579 46.666	5	099.30 099.04		P <sub>3</sub> 11	
40.488 40.564 40.542	1 9	1.6.u8	R <sub>1</sub> 6 Q <sub>1</sub> 13	Ωω2	P <sub>2</sub> 10	46.758 46.829	8 8	098.77 098.56		On4 Pulo	P <sub>2</sub> 12] P <sub>2</sub> 13]
40.757	2	116 31				46.894	1	098.38	İ		
40.850 1 40.977 41.116	1 1	116.07 115.70 115.29		C <sub>23</sub> 1		47.051 47.133 47.226	8	097.92 097.68	Q <sub>12</sub> 7	Pall	
41.257	7	114.88			P, 11	47,314	5	097.41 097.15	i	P~12 ∉a13	

λ	1	,	Classifica.: 10-6	,	I	ν	C1 10-	assifica	tion 9-5
<u> </u>	1 -		10-0		-		10-	-	7-3
847.400	1	17 096.90	-	5853.593	2	17 078.80	l i		
47.483	2	096.65		53.646	10	078.65	P129		
47,522	10ъ	096.54	0,7	53.697	9	078.50	P <sub>1</sub> 11		
47.885	1	095.48	1 · 1	53.770	6	078.29	P <sub>12</sub> 8	P <sub>13</sub> 11]	
	6		n 2   .	53.824	3	078.13	^ 122 _]	- 131	i
47.984	l °	095.19	R <sub>1</sub> 2	11 33.024	-	0.0.13	1		
	١.	*** **	1 1	53.873	10	077.99	2 7	P, 10]	i
48,062	1	094.96			1 .		Pu7	Filo	l
48.158	5	094.68	O <sub>12</sub> 6	53.941	6	077.79	P126		i
48.272	1	094.33	t t t	53.972	10	077.7u	P <sub>13</sub> 10	· .	Ī
48.381	9	094.03	0235	53.997	10	077.63	P125	- 1	l
48.464	1	093.78		54.061	10ь	077.44	P <sub>12</sub> l, 4	P <sub>1</sub> 9]	
	!			11		1	1		
48.550	10	093.53	C: 6	54.118	3	077.27	Pu9	_ 1	ì
49.038	2	092.11	) - i l	54.168	7	077.13	P. 8	Ω, 0]	l
49.166	9	091.73	Q <sub>12</sub> 5	54.220	5	076.97	-	0-9	l
49.291	l i	091.37		54.260	9	076.86	P, 7	Pu8]	l
49.407	Ž	091.03		54, 329	, -	076.66	P, 6	P, 0	i
.,	l -	5,	i	11	1 - 1				l .
49.504	10	090.74		54.399	10ь	076.45	P <sub>1</sub> 1-5		l
49.550	10	090.61	امدا	54.617	i	075.82			
			Ω <sub>1</sub> 5	55.089	l i	074.44	1		l
49.694	1 2	090.19	ا ر ما	55.297	ia	073.84			
49.798	١٤	089.89	R <sub>1</sub> 1	55.513	5	073.21		O <sub>21</sub> 10	l
49.941	6	089.47	O236	35.513	, ,	013.21		C33 1 0	i
	١. ١		1 1	11 55 620		077 07	1		1
50.027	1 1	089.22		55,629	1	072.87	1		l
50.149	16	088.85	Q <sub>13</sub> 4	55.776	9	072.44	Ozzi	1	I
50,414	2	088.0	ļ ļ, <b>i</b>	55.958	1	071.91	}		
50,503	10	087.83	Ω, 4	56,461	2	070.44	1		
50.546	1:0	087,70	Ω <sub>1</sub> 4	56.582	2	070.09	1		į .
		•		11			1 1		
50.685	1	087,30	l i ì	56.675	7	069.81	0,,2	0,,1]	l
50.818	Ιž	086.91	!!!	56.715	7	069.70		02311	1
50.933	1	086.57	}	56.802	1 i	069.45	1		l
51.019	2	086.32		56.923	lī.	069.10			Ι.
	9	086.03	0.3	57.063		068.69	1		S <sub>33</sub> 1
51.119	i '	000.03	Q <sub>12</sub> 3	11 5	-	000.07			~#.
er 221	١.١	005 77		57.210	2	068.26	l i		T347
51.221	1	085.72	i i i		3	067.03			.,,
51.321	2	085.44		57.328	_	067.92	Ouz		i
51.434	10	085.10	0237	57.470		067.50	N <sub>13</sub> 2	. 1	i
51.480	10	084.97	Q <sub>1</sub> 3	57.584	10	067.17	O <sub>12</sub> 3		l
51.570	5	084.71	R <sub>1</sub> 0	57.677	] 1 .	066.90			i
_	'		i [ [						l
51.643	1	084.55		57.774	1	066.62	i		
51.919	1	083.69		57.860	3	066.37	1 1	0212	
52.063	В	083.27	Q <sub>13</sub> 2	58.000		065.96	į <b>i</b>		l
52.169	1	082.96	l "	58.087	1	065.71			l
52.310	ı	082.55		58.148	4	065.53	0,3		l
		- /	1	- 11	1		-		l
52.414	10	082.24	Q <sub>1</sub> 2	58,219	1	067.32	! I		Ī
52.566	i	081.80		58,361	i	054.91	1 1		l
52.688	;	081.45		58,471	9	064.59	0,4	!	Į
52.770	6	081.21	P1213	58.606		064.19	-m.		
52.861	7	080.94	O <sub>13</sub> 8	58.741	l i	063.80	} i		l
22,001	١' ١	VUU. 77	555	11 70.74	١ *	"""	į 1		ì
52.937	1	680,72		58, 831	1	063.54	, !		
	5		الدا	58.919	3	063.28	, I	O <sub>23</sub> 13	
53.003 53.058		080.53	3131		3		ایرا	021.3	I
22.026	5	080.37	P <sub>12</sub> 12	59.005		063.03	0,4		i
	7	080.02		59.119	2	062.70	1 1		
53.177	10	079.70	P <sub>12</sub> 11	59.228	4	062.38	N133		1
			1 1 1	- 11			1 !		l
53,177 53,286				11 60 751	105	062.02	0125		
53.177 53.286 53.317	10	079.61	$Q_1$ 1	59.351			1 677 1		
53.177 53.286 53.317 53.385	2	079.41		59.558	16	061.42	l on		S <sub>33</sub> 1
53,177 53,286 53,317	2 3		Q <sub>1</sub> 1 P <sub>1</sub> 12		1b	061.42 060.90	ons		S <sub>12</sub> 1
53.177 53.286 53.317 53.385	2	079.41		59.558	16	061.42	0115		S <sub>33</sub> i

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λ	1	v	10			.5	1	1	,	10-6	9-	
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5860.210	9	17 059.52	0126			m 4	5867.214	2	17 039.16		R <sub>2</sub> 15	
60.337	1	059.15	1			T316	67.290	1	038.94			
60.512	2	053.64			i 1	j	67.391	1	038.64			i .
60.6'9	1	058.33			1 1	1	67.536	1	038,22			
60.725	•	058.02	0,6	1 1			67.614	1	038.00			
60.817	z	057.76		02915		1	67.675	4	037.82		S <sub>21</sub> 9	ł
60.930	ii	057.43	Į.		l i	1	67.815	i	037.41		23.7	l
51.011	Ž	057.19	N <sub>19</sub> 4			1 (	67, 935	3	037.06		•	ļ
61.053	10	057.06	0,,7	1		1	68.066	2	036.68		Į	ŀ
61,342	1	056 23	-	[		1	68.171	4	036.38	N <sub>13</sub> 8		R <sub>32</sub> 12
	١.		1			1	(2.22					<b>"</b>
61.464	1	055.87	۱				68.329	3	035.92	Ì	ľ	}
61.553 61.722	5	055.61	0,,7	•		ì	68.414	1	035.67			Ι.
61.722	1	055.12					68,525	5	035.35			S <sub>32</sub> 6
61.877	8	054.67	0,28				68.669	2	034.93	1	i	R, 12
61.955	2	054.44	ľ	1	l i	S <sub>32</sub> 9	68.775	1	034.63		ł	
62.057	1	954.15	i				68.929	5	034.18		[S <sub>31</sub> 6	T3,3
62.184	i i	053.78	I	] !	S21 11		69.086	ī	033.72	1	(~)( ~	*"
62,273	2	053.52	l	1			69.281	2	033,16	1	R <sub>2</sub> 14	1
62.380	4	053.21	റും	i i		5,19	69.404	1	032.80		-77	ł
62.506	2	052.84	"	i :			69.507	1	032.50		Î	!
	١., ١		١			1						1
62,673	10	052.36	0,19				69.667	2	032.04	•	R <sub>21</sub> 14	l
62.818	5	051.93	N <sub>13</sub> 5	1			69.776	4	031.72	i :		R3211
62,921	1	051.63	ì	1			69.856	1	031.49	i :	ĺ	
63.054	1 1	051.25		1			69.938	5	031.25	N126		1
63.155	3	050.95	0139	1			70.011	2	031.04	ŀ	i	1
63.236	1	050.72	ĺ	ĺ		1	70.144	1	030.65		i .	ĺ
63,312	3	050.50	ŀ	1		T315	70.264	5	030.30			١, ,,
63.439	6	050,13	0,,10	1 :		-31-	70.317	2	030.15		S <sub>21</sub> 8	R, 11
63.585	i	049.70	-16	1			70.386	1	029.95		2210	İ
63.735	24	049.27	l	i i			70.469	7	029.71			S <sub>32</sub> 5
	1			•					l l			-34
63.931	3	048.70	0,,16	1		1	70,602	1	029.32			i
64.052	1	048.34	۱		1	1	70.738	1	028.93			}
64.172	2	048.00 047.73	01211	1	•		70.860	.3	028.58		į	3,15
64.488	lia	047.08	1	1		S,2 8	70.962	1	028.28			1
1	l	041.00	l	1	1		71.071	2	027.96	1		1
64,626	4	046.68	0,11	N136]	1	1	71.158	1	027.68			i
64.741	2	046,34		•	l		71.260	4	027.42		R <sub>2</sub> 13	K3210
64.870	4	045.97	0,212	I	i		71.383	1	927, 06			
64.995	1	045,60	i	l	S2110	]	71.530	4	020.63			T312
65.198	0	045.01	į	1		R, 14	71.598	1	026.44			"
65,364	1	044.53	0,12	l			71.666	4	026.24	N 10	, ,	
65,524	1 5	044.07	01213	i .	ł	i i	71.747	3	026.00	N <sub>13</sub> 10	R <sub>21</sub> 13	
65,688	lí	043.59	-"	i		1. 1	72,163	1	024.80	l		R <sub>2</sub> 10
65,806	3	043,25	1	l	1		72.294	6	024.42			e . 4
65.918	2	042.92	l	1	•		72.363	3	024.22		R,15]	S <sub>32</sub> 4
			١								.,,,,,	
66.015	2	042.64	0113			T	72.523	1	023.75		,	
66.283	li	041.86	01214	ì		T214	72.642	5	023.41		[R339	S <sub>31</sub> 4
66.398	5	041.53	N <sub>13</sub> 7	Į.	1		72.771	2	023.03			1
56.451	5	041.37	1 ,,,,,	1		S <sub>32</sub> 7	72.858	5	022.78 022.37	ļ	S <sub>21</sub> 7	ĺ
i	1	•	•	1		-	1 1	•				
66.586	1	040.98	١, ,,	1			73.127	6	022.00	İ		R, 9
66.706 66.832	2	040.63	0,,15	1	•	S31 7	73.245	1	021.66			l
66.980	2	039.84	i	1	1	R, 13	73.360	2	021.33	N <sub>13</sub> 11		,
67.086	l î	039.53	1	1		ار. د. ا	73.584	2 1d	020.68		R <sub>21</sub> 12	١.
	L <u>.</u>	L	L	<u> </u>	1	ll	73.757	ıd	620.18	l		

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ì	1	· v	10-6		ication 9-5		λ	1	ν	Cı	assifica 9-5	tion
5873.902 73.982 74.105 74.254	4 10 1	17 119.76 119.52 119.17 118.74		·		R <sub>32</sub> 8 T <sub>31</sub> 1	5879.932 80.067 80.332 80.465	1 9 1 4	17 002.30	[R <sub>2</sub> 8	S <sub>21</sub> 4	Q <sub>3</sub> 14 Q <sub>32</sub> 13
74.342 74.395 74.552 74.652 74.911 75.042	5 3 2 8	118.48 118.33 137.87 117.50 116.83 116.45	N <sub>13</sub> 12		R2 11	S <sub>12</sub> 3 R <sub>2</sub> 8 S <sub>31</sub> 3	80.556 80.650 80.739 80.819 80.953 81.130	2 2 1 5 1 1	000.50 000.23 16 999.97 999.74 999.35 998.84			Q <sub>3</sub> 13 Q <sub>32</sub> 12
75.193 75.335 75.424 75.541 75.766	14491	116.02 115.61 115.35 115.01 014.36			S <sub>21</sub> 6 R <sub>21</sub> 11 S <sub>32</sub> 2	R <sub>3</sub> 7	81.385 81.484 81.600 81.715 81.860	5 3 6 2 2	998.10 997.81 997.48 997.15 996.73	R; 11	R <sub>2</sub> 7	Q <sub>3</sub> 12 Q <sub>32</sub> 3
75.879 75.979 76.068 76.155 76.236	3 2 6 1 5	014.03 013.74 013.48 013.23 013.00				S <sub>31</sub> 2 R <sub>32</sub> 6	81.998 82.032 82.111 82.188 82.322	10 10 1	996.33 996.23 996.00 995.78		R <sub>21</sub> 7	Ω, 11 Ω, 3
76.350 76.478 76.583 76.680 76.777	1 2 5 1 3	012.67 012.30 011.99 011.71 011.43	N <sub>13</sub> 13		R <sub>2</sub> 10	T <sub>31</sub> 0	82.401 82.484 82.547 82.619 82.706	8 2 5 1 6	995.39 995.17 994.93 994.74 994.54 994.28		S <sub>21</sub> 3	Q <sub>32</sub> 9 Q <sub>32</sub> 3 Q <sub>3</sub> 10 Q <sub>32</sub> 6 Q <sub>3</sub> 4
76.849 76.932 76.961 77.084 77.180	1 10 10 1 1	011.22 010.98 010.89 010.54 010.26		R <sub>1</sub> 13	R2110	S <sub>32</sub> 1 R <sub>32</sub> 5	82.814 82.870 82.922 82.974 83.030	9 3 8 3 9	993.97 993.81 993.66 993.51 993.35			Q <sub>3</sub> 9 Q <sub>3</sub> 5 Q <sub>3</sub> 8
77.248 77.343 77.402 77.489 77.630	4 1 3 8 2	010.27 009.79 009.62 009.37 008.96				S <sub>31</sub> 1	83.076 03.115 83.295 83.446 83.524	3 10 1bd 6 4	993.21 993.10 992.58 992.15 991.92	R, 10	к <sub>2</sub> 6 R <sub>21</sub> 6	Ω, 6 Ω, 7
77.729 77.831 77.930 78.024 78.123	9 1 2 1 2	063.68 008.38 008.09 007.82 007.53			S <sub>21</sub> 5	R <sub>52</sub> 4	83,623 83,844 83,937 84,038 84,104	1 2 1 2	991.63 991.00 990.73 990.44 990.25			
78.257 78.335 78.453 78.559 78.704	5 8 4 1 2	007.15 006.92 006.58 006.27 005.85			R <sub>2</sub> 9	R <sub>3</sub> 4 R <sub>32</sub> 3	84.171 84.257 84.348 84.437 84.505	3 1 2 5 5	990.05 989.81 989.54 989.29 989.09		R <sub>2</sub> 5 S <sub>21</sub> 7.	
78.800 78.860 78.914 78.995 79.098	3 6 6 1	005.58 005.40 005.25 005.01 004.71			R219	R <sub>32</sub> 2 R <sub>3</sub> 3	84.650 84.753 64.831 84.953 85.041	2d 1 10 1	988.67 988.37 988.15 987.80 937.54		R <sub>21</sub> 5	
79.198 79.323 79.449 79.627 79.779	4 2 3 1 2	004.42 004.06 003.70 003.18 002.74		R <sub>1</sub> 12		R <sub>5</sub> 2	85.119 85.227 85.364 85.516 85.619	5 1 2 1 9	987.32 987.00 986.61 986.17 985.87	R. 9		

Cap in the measurements which contains the following strong bands (Pi head).

					_		•
λ	I	λ	Band	λ	1	<b>y</b>	Band
		16 927.24 16 776.68	9-5 8-4			16 470.85	6-2
		16 624 54	7-3	6147.33	3	16 315.81	5-1

- 4

λ	1	v	5-1	4-	Classi 0	Scatton	12-9	
6146.615 46.741	5	16 264.63 264.29			, R <sub>3</sub> 111			S <sub>32</sub> 5
46.841 47.004 47.071	6 3 3	264.02 263.60 263.41			<i>8</i> <sub>32</sub> 5			S <sub>31</sub> 5
47.195 47.318 47.556 47.660	1bd 2bd I 2bd 3d	263.09 262.76 262.13 261.86	10		S <sub>N</sub> 5		•	R <sub>33</sub> 10 R <sub>2</sub> 10
47.805 47.900 47.993 48.061	2d 1d 3d	261.48 261.22 260.98 -260.80	NulO		R <sub>M</sub> 10			T <sub>31</sub> 2
48.220 48.347	lbd 3	260.38 260.04			R, 10			
48.426 48.577 48.698	3 4 1	259.83 259.43 259.12						R <sub>43</sub> 9 S <sub>33</sub> 4
48.822 48.952	2 7b	258.79 258.44		8 <sub>81</sub> 7	8124		[R <sub>2</sub> 9	R <sub>11</sub> 9 S <sub>11</sub> 4
49.124 49.252 49.335 49.413 49.752	1 2 2 4 1d	257.98 257.65 257.43 257.23 256,33			831 4		S <sub>81.</sub> 7	
49.880 49.955 50.054 50.250 50.324	4 2 2 2 2	255.99 255.79 255.53 255.01 254.82	ИцП	,	R <sub>2</sub> 9			R <sub>M</sub> \$
50.424 50.504 50.647	5 2 1	254.55 254.33 253.96 253.78					[R <sub>2</sub> 8	R <sub>31</sub> 8 S <sub>12</sub> 3 T <sub>31</sub> 1
50.718 50.802	3	253.55						S <sub>31</sub> 3
50.875 50.953 51.214 51.295	8 ?	253.36 253.15 252.47 252.25		[T <sub>31</sub> 1	Rais Sur I		Rg 11	R117
. 51.376	4	252.04			5313		Rg111	
51.446 51.529 51.614 51.745 51.802	2 1 4 3	251.85 251.63 251.41 251.06		R <sub>2</sub> 11	R3 8			Re17 Re 7
51.870	1	250.91 250.73		S <sub>21</sub> 6				
51.959 52.055 52.109 52.204	2 4 4 5	250.50 250.24 250.10 249.85		R <sub>21</sub> 11	R227		S <sub>21</sub> 6	S <sub>32</sub> 2
52.386 52.471 52.567	2 1 1	249.37 249.14 248.89						R32 ô S31 2
52.661 52.772	1 8	248,64 248,35		[5322	R <sub>3</sub> 7		•	

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6152.864	1	36 248.11					1	T110
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					2312	1		
53.481	•	246.65			R <sub>22</sub> 6		Raio	R <sub>23</sub> 5
-1		344 43			-			
				R- 10	T0			S <sub>12</sub> 1
53.736	Z	245.82			.,,,			74
53.637	1	245.53			R316			R <sub>31</sub> 5
53.915	1	245.33						S <sub>31</sub> 1
53.971	7	245.18			R <sub>3</sub> 6			R <sub>2</sub> 5
				R2110				Q, 15
54.434	9			[R15	5,,1			R224
£4.570			-					
				S <sub>21</sub> 5			٠. د	
					51		22.5	
54.274	2							Rs 4
54,935	1	242.64					R <sub>2</sub> 9	•
54,990	4	242.49						Reg3
55.935	6	242.37			P. 5			
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25,240	٠,	271.00			11312		Kata	
55.428	1	241.34						
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					P. 4			R <sub>3</sub> 3
55.812	ĭ	240,33			~3/4			
55 241		240 14						D 1
					R. 4			R <sub>11</sub> 2
55.995	5	239.84		R219	, -			
		239.65			R <sub>ie</sub> 3			
56.174	Id	239.37				İ		
54.271	3	239.11						Q 13
56.369	2	238.85						
					R <sub>31</sub> 3			
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56.834	1			۱. ا				
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57,196	5	236.68	)				R218	Q <sub>1</sub> 12
57,272	,	236 46		8.4			_	
	3			R, 8	R. 2			
57.689	1	235,40						
		235,18		9.0				
	-	437,73		Lite				
57.955	5	234,67						Q <sub>3</sub> 11 Q <sub>31</sub> 10
		254,47				R <sub>1</sub> II		Ω3210
					~2 12 E			
58,386	3	233,54	R, 11		i .i			
	52, 936 53, 159 53, 296 53, 296 53, 591 53, 591 53, 591 53, 591 53, 591 54, 674 54, 293 54, 674 54, 293 54, 683 54, 578 55, 215 55, 215 55, 215 55, 215 55, 215 55, 216 55, 217 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 55, 218 56, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 57, 218 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54.625 4 54.625 4 55.124 1 55.916 5 55.124 1 55.916 1 55.917 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 1 55.918 2 55.955 5 56.646 5 56.174 1 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6 56.814 3 56.715 6	52,936 4 247,91 53,159 2 247,33 53,296 1 246,97 53,441 8 246,65 53,563 1 246,19 53,276 2 245,82 53,371 7 245,18 54,874 2 244,51 54,134 2 244,62 54,293 4 244,33 54,434 9 243,96 54,578 5 243,58 54,655 5 243,58 54,655 5 4 243,30 54,777 2 243,06 54,777 2 243,06 54,777 2 243,06 54,777 2 243,06 54,777 2 243,06 55,277 3 243,06 55,527 4 241,08 55,514 3 240,53 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,33 55,811 1 240,48 55,576 3 239,99 55,995 5 239,84 56,666 6 239,65 56,174 1d 239,37	52.936 4 247.91 53.159 2 247.93 53.296 1 246.97 53.441 8 246.66  53.583 1 246.42 53.591 7 246.19 53.730 2 245.82 53.537 1 245.33 53.915 1 245.33 53.917 7 245.18 54.674 2 244.91 54.134 2 244.62 54.293 4 244.33 54.434 9 243.96  54.573 5 243.58 54.655 4 243.30 54.777 2 243.06 54.777 2 243.06 54.777 2 243.06 54.777 2 243.06 54.777 2 243.06 54.778 2 242.80 54.935 1 242.64  55.936 6 242.37 55.815 6 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58.947	7	232_06	}				R <sub>21</sub> 7	Q <sub>32</sub> 7
59.033	3	231.83	ì		Ω 13		_	ದ್ವಿತ
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59.221	i	231.34	Ì	R <sub>2</sub> 7				Q <sub>32</sub> 5
59.340	14	231.02		,				
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59.602	6	230.33	l	R217				
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59.825	2	229.75						
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60.089	3 1	229.05				1	_ ,	
- 1	- 1	228.34					R <sub>2</sub> 6	
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60.579	4	227.76			Ω, 3	R <sub>1</sub> 10	R216	
	2	227,35			Ω329			
60.822	5	227.12	R, 10	R <sub>2</sub> 6	Q325			
60.909	3	226.89		-	Q <sub>3</sub> 10			
60.985	2 4	226.69 226.48		[Q, 4	Q <sub>3,2</sub> 8		0 12	
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61.285		225.90		R216	0.9			
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61.941	.	224.17			ļ			
62,022	2	223.96			i		S <sub>21</sub> 2	
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62.565	۱ ا				Ì			
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63.314	1	220.56	''''		İ		Ω2312	
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63.509	3	220.04	}	Q <sub>2</sub> .13				
63.612	4	219.7					R <sub>21</sub> 4	
63.732 63.656	3	219.45 219.13			j		Q <sub>21</sub> 11	
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64,264	6	218.06	1	1	ł	1	321	P, 5
64.369	7	217.78		1		l	72.	73.3
64.442	1	217.59	1	1	1	1	Q <sub>2</sub> 10	1
64.518	3	217.39	}	Q <sub>2</sub> 12	}	j	1	j
64.592	2	217.19		1		l	R. 3	1
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65.090	1	215.88	Ì	Ω212			120,10	valal
65,202	4	215.59	1	ì	1	R1 8	1	l
65.336	6	215.24	1.	1	1	~,	C2 9	1
65.383	4	215.11	}	1	}	1	~* '	l
65.476	4	214.87		Q 11	1	1	1	P3 6
65,551	4	214.67	R <sub>1</sub> 8			į	Į	1
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65,930	2	213.83 213.67		1	1	9	Ω <sub>23</sub> 9	Ī
65,997	2	213.50	Í	1			1	ĺ
66.050	3	213.36		0.11	ł		1	l
66,151	4	213.09	i	Q <sub>21</sub> 11	1		Ωε	ł
66,258	3	212.81	Í	1			Rei2	[
66.356	4	212.55	1	Q <sub>2</sub> 10		•		l
66.446	1	212.32	1	ļ				
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86.688	264	211.68	}	1		l	(J <sub>23</sub> 8	, ,
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67.200	il	210.34	1	Ω <sub>2</sub> 9 S <sub>21</sub> 0	R <sub>21</sub> 2]			}
67.302	5	210.07	l	1 -4 -			Q <sub>31</sub> 7	
67.405	5	209.80	l				Q <sub>20</sub> 7	
67.472	8 .	209.62	j	]		R <sub>i</sub> 7	Q15, R11	P3 8
67.568	2	209.37	<u> </u>	Ω219	·			
67.671	2 3	209.10	٠. ا	Q239				
67.738 67.802	3	208.92 208,75	Q <sub>1</sub> 15	1	i			
67.861	7	208.60	R <sub>2</sub> 7	C <sub>R</sub> 8				
67.934	.	208, 41	-	}				
68.003	5	208.41	1	!	P, 6		Ω <sub>21</sub> 6 Ω <sub>3</sub> 5	0/1
68.112	1	207.94	1	!	-,•		1473 J	Class (
68.188	3	207.74	1	ì _	•			P, 9
68,289	2	207.47	i	Ch18				•
68.396	85	207.19	[R <sub>21</sub> 1	Ω238	Ω <sub>2</sub> 7]		Ω <sub>2</sub> 4	Q <sub>21</sub> 5]
68.481	1	206.97			1		R210	
68.575 68.689	5	206,75 206,42	1				Ω <sub>23</sub> 5	
63.772	ž	206.20		1 1	ı		Ω2 3	P, 10
68.846	5	206.01		١,, ١	- 1		t	-,
68.925	<b>i</b>	205,80		Ω <sub>11</sub> 7 Ω <sub>2</sub> 6	ì	ļ	Ω14	
68.978	5	205,66		Q <sub>23</sub> 7	ſ	ĺ	Ω214	
69.021	1	205,55			. 1	I	Q2 2	
U74 U71	. !	205.35	l j	ı i	Ē	j	l l	

59.279 5 204.87 P <sub>3</sub> 7	Q <sub>21</sub> 3] P <sub>3</sub> 1 Q <sub>21</sub> 2]
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Sq. 233   2   204.99   Sq. 279   Sq. 279   Sq. 279   Sq. 279   Sq. 279   Sq. 279   Sq. 279   Sq. 279   Sq. 279   Sq. 204.61   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.29   Sq. 204.29   Sq. 204.29   Sq. 204.29   Sq. 204.29   Sq. 204.29   Sq. 204.29   Sq. 204.29   Sq. 204.29   Sq. 204.29   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204.27   Sq. 204	P <sub>3</sub> 1
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73.074 1 194.91 Q <sub>12</sub> 11	
73.159 1 194.69	1
73.241 6 194.47 73.235 7 194.35 P <sub>23</sub> 2 Q <sub>1</sub> 10 P <sub>24</sub> 4	
73.235 7 194.35 P <sub>33</sub> 2 P <sub>33</sub> 4	į
	1
73.472 1 193.87	-
73.537 6 193.69 Q <sub>i</sub> 11 P <sub>3</sub> 12	- [
	P2 6]
73.958 1 1°2.59 P <sub>3</sub> 13	- 2 - 1
	į
74,030 5 192,40 R <sub>1</sub> 4	- 1
74.185 8 192.00 P <sub>21</sub> 3 Q <sub>12</sub> 9	1
74.286 1 191.73	- 1
74.366 2 191.52 P <sub>2.7</sub>	1

λ	I	,		4-0	DicealS	cation	12-9	
6174.435	5	16 191.34					P256	
74.522	1 ·	191.11 190.92	R1 4					
74.642	8 2	190.80 190.53				⊋, 9	O <sub>20</sub> 3 P <sub>2</sub> #	
74.860	8 8	190.23 190.12	Q <sub>1</sub> 10				D 7	
74.900 74.979 75.044	1	189.91 189.74		Pn4			P <sub>2</sub> 7	
75.126	i	189.53		- 23-			P <sub>3</sub> 13	
75.194 75.262	1 5	189.35 189.17				[P <sub>2</sub> 11	P <sub>2</sub> 10 P <sub>30</sub> 8	P3 12]
- 75.350 75.434	1 3	188.94 188.72						-,
75.534	7	188,46				Ωμ8	P <sub>26</sub> 9	
75.660	4	188,13 188,01	Ω <sub>12</sub> 9	P <sub>3</sub> 5			P <sub>22</sub> 13 P <sub>26</sub> 10	
75.788 75.867	9	187.79 187.59		P235			P <sub>26</sub> 11	
75.970	6	187,32				Ω <sub>1</sub> 8		
75.050 76.132	2 10	187.11 186.89	Ω, 9	P <sub>2</sub> 6		R <sub>2</sub> 3		
76.295 76.365	1	186.46 186.28						
76,424	3	186.13					O <sub>26</sub> 4	
76.513	6	185.89 185.62		On3 Pn6 Pa7				
76.719 76.304	8	185.35 185.13	R <sub>1</sub> 3	Par		7در2		
76.919	3	184.83 184.65	Q <sub>13</sub> 8					
77.127	1 9	184,28 183,95				0.7		
77.299	9	183.83 183.63	0.8	P <sub>23</sub> 7		C <sub>3.</sub> 7		
77.506	1	183.29	Ω <sub>1</sub> 8					
77.632	1d	182.96 182.67		ļ				
77.838	2 5	182.42 182.29		P <sub>2</sub> 9 P <sub>25</sub> 8				
77.992	2	182.02						
78.075	5	181.80	Ω <sub>13</sub> 7			C)176	Oas	
78.187 78.270	2	181.51 181.29		P <sub>2</sub> 10		R <sub>2</sub> 2		
78.343	,	181.10					Î	
78.408 78,497	6	180.93		P <sub>22</sub> 9		Ω, δ		
78.581 78.725	95 1	180.48	Ω, 7	P <sub>2</sub> 11	O <sub>23</sub> 4]			
78.840	3	179.80	1	Paiû				
73.898 78,979	1 4 2	179.65	R <sub>1</sub> 2	P <sub>3</sub> 12				
79.055 79.118	i	179.23		P <sub>2</sub> 13 P <sub>2</sub> 14				

	1				Classific			
λ	I	·		4-0	Cizianii	1	12-9	
6179.181	4	16 178.90		P <sub>20</sub> 11		<b></b>		
79.270	5	178.67		1		Ω <sub>12</sub> 5	1	1
79.310	4	178.57	Q <sub>12</sub> 6				:	1
79.441	3	178.22		Pn12			i	i
17.005	! * .	177.80		P <sub>20</sub> 13			l	
79.684	9	177.59		Ì	i i	Ω, 5	0236	1
79.762	8	177.38	Q, 6	1 .	}		_	}
79.947	2	176.90		į ·	i i	Ì	l	
80.029	i	176.68 176.48		l		}	l	l
	-	21.00		ĺ				1
80.195	4	176.25				R, 1	l	l
80.270	1	176.05		•			l	1
80.350 80.452	6	175.84 175.58	Ω <sub>12</sub> 5			0.4	1	1
80.524	6	175,39	412	025		Ω114	ĺ	İ
	1	1		-25-	1		l	
80.621	1	175.14		!			l	
80.698 80.765	1 2	174.93					1	1
80.835	5	174.76 174.57		<u> </u>	1	Ω, 4	1	j
80.910	10	174.38	Q <sub>2</sub> 5		l i	-13 -	l	
	i		•		1		ĺ	
81.026	24	174.08			,			İ
81.138	5	173.78	R, I					l
81.188 81.336	ĭ	173.65 173.26					O <sub>25</sub> 7	
81.448	ī	172.97						ļ
31.540 81.693	4	172.73		1		Ω <sub>12</sub> 3		1
81.688	i	172.57 172.34	Qu4				i	
81.762	ī	172.15	-					
81.846	3	171.93				P <sub>12</sub> 13		
81.947	8	171.66				Q <sub>1</sub> 3		
82.038	8	171.43	Q <sub>1</sub> 4					•
82.136	2	171.17				R <sub>1</sub> 0		1
82.262 82.352	4	170.84 170.61				P <sub>1</sub> 13		1
		2,0,01				P <sub>12</sub> 12		1
82,429	4	170.40		೦ <sub>23</sub> 6		i		
82.509 82.626	2	170.20				ا 🔒 ا		
82.725	6	169.89 169.63	Q <sub>12</sub> 3			Ons	O <sub>23</sub> 8	
82.037	5	169.36	141g-			Pull	P, 12]	
	١. ١	,,,				<b>"</b>		
82.925 83.012	1 5	169.11 168.;;°						
83.148	10	168.52	Ω <sub>1</sub> 3			Q <sub>1</sub> 2		1
83.262	5	168.23	R, c			P <sub>13</sub> 10	P <sub>1</sub> 11]	
83.363	1	167.96	-					)
83.482	2	167.65			ì			
83.590	6	167.37				P <sub>12</sub> 9		
83.687	5	167.11			٠ .	Ωμ1	P <sub>1</sub> 10]	
83.765 83.830	3	166.91	۸,					
0.0.0	,	166.74	Ω <sub>13</sub> 2					
83.879	4	166.61				P118	1	
83.936	4	166.46					02,9	
84.030 84.134	8 7	166.22 165.95			•	Ω, 1	1, 9	
84.249	7	165.64	Q <sub>1</sub> Z			P <sub>11</sub> 7		

					Classific	tion		
A 6184,289 84,336 84,430 84,502 84,569	5 6 1 7 5	16 165.54 165.42 165.17 164.98 164.81		0 <sub>23</sub> 7		P <sub>12</sub> 6 P <sub>13</sub> 8 P <sub>12</sub> 5 P <sub>1</sub> 7	12-9 P <sub>1</sub> 8]	
84.638 84.737 84.796 84.847 84.929	57457	164.63 164.37 164.22 164.08 163.87	բ <sub>ոչ</sub> 15 Q <sub>ոչ</sub> 1			P <sub>12</sub> 4 P <sub>12</sub> 3 P <sub>12</sub> 2 P <sub>12</sub> 1 P <sub>1</sub> 5		
84.984 85.048 85.131 85.185 85.244	1 4 7 6 1	163.73 163.56 163.34 163.20 163.04	P <sub>12</sub> 14			Q, 0 P, 4 P, 3 P,1,2 Pµ4	O <sub>23</sub> 10	
85.308 85.430 85.589 85.681 85.800	8 2 1 2 2	162.88 162.56 162 14 161.90 161.59	Q <sub>1</sub> 1 P <sub>12</sub> 13 P <sub>12</sub> 12			Pµl		
85.887 85.956 86.032 86.091 86.152	6 1 7 1 8	161.36 161.18 160.99 160.83 160.68	P <sub>12</sub> 11 P <sub>12</sub> 10 P <sub>1</sub> 12	P <sub>1</sub> 13] O <sub>23</sub> 8 P <sub>12</sub> 9				
86.235 86.310 86.421 86.498 86.555	8 10bb 2 5 2	160,46 160,26 159,97 159,77 159,62	P <sub>12</sub> 8 P <sub>1</sub> 11 P <sub>1</sub> 10	P <sub>12</sub> 1-7]	Ω, 0]			
86.620 86.662 86.703 86.753 86.909	9 8 9 100b	159.45 159.34 159.23 159.10 158.70	P <sub>1</sub> 0,9 P <sub>1</sub> 1,8 P <sub>1</sub> 2-7		•	O <sub>LL</sub> 1		
87.030 87.150 87.242 87.321 87.446	1 3 1 1 1	158,36 158,06 157,82 157,62 157,29					O <sub>23</sub> 12	
87.543 87.651 87.721 87.868 87.927	2 3 5 1 2	157.04 156.76 156.58 156.19 156.04		O <sub>23</sub> 9		O <sub>13</sub> 2	O <sub>13</sub> 1]	
88.262 88.339 88.472 88.576 88.684	7 2 1 7 1	155,16 154,96 154,61 154,34 154,06	0121	-		O <sub>13</sub> 2	O <sub>23</sub> 13	
89.193 89.308 89.376 89.473 89.822	2 1 5 1 1d	152.73 152.43 152.25 152.00 151.09	O <sub>12</sub> Z	O <sub>23</sub> 10		O <sub>13</sub> 3		

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6190.065	2	16 150.46	Ozz		O <sub>13</sub> 4		1
90.154	Z	150.22			-,,,		
90.336		149.75	N <sub>25</sub> Z		O <sub>22</sub> 5	N <sub>13</sub> 3]	l
90.412		149.55					
90.484	9	149.37	O <sub>/3</sub> 3				ļ
90,577	13	149.12					ŀ
90.739	1 3	148.70					
90.830		148.46	<b>(</b>	O <sub>25</sub> 11			l
90.906		148.26	ļ		O <sub>11</sub> 5		ŀ
91.034	' I *	147.93					l
91.154		147.62	0,3		0216		
91.322	1	147.18			-		
91.438			!				T319
91.588		146.49	0154	1			
91.720	1 -	146,14			0236		
91.655		145.79	<b> </b> .				S <sub>32,</sub> 13
91.959	5	145,52	i		0,17		-*
92.083		145.19					
92.217		144.84 144.69	0134	0.13	N <sub>D</sub> 4		
12,000	1 -	144.07	·	O <sub>20</sub> 12			
92.367		144,45			•		}
92.495		144.12	N <sub>13</sub> 3		O <sub>u</sub> 7		
92.585		143.88					
92.693		143.60 143.23	O <sub>22</sub> 5		O <sub>12</sub> 8		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.	143.23					
92.976	2 d	142.88			•		
93.150		142.41					
93.218		142.23		1	Ons		
93.288		142.05	O <sub>23</sub> 5		Cus		
[	1				C42,		
93.500		141.50	1				
93,603		141.23					
93,711	6	140.95 140.77	ا م ا	O <sub>23</sub> 13	]		
93.779	i	140.54	O126				
/ ///	1.		1				
93.951	2	140.32			C <sub>13</sub> 9		
94.082	1 :	139.98			0,110	N <sub>U</sub> 5]	
94.253		139.52 139.24	امدا				1
94.504		138.88	Ous				
ţ	1	1					
94.592	1	138,65	l				l
94.676		138.43	N <sub>13</sub> #		Outi		
94.768		138.20 137.97	07				
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ì	1						~11.0
95.096		137.34		,			
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95.428 95.503	3 2	136.48 136.28	0,57				
95.607	i	136.01		1			
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95.714		135.73		j			
95.817 95.911		135.46 135.22	ا م	}			
96.009		134.96	O118				
96.138		134.63					
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			Γ	Class	ification			T		Class	ificati	lon
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6196.254	ī	16 134.32				6203,792	1	16 114, 72				
96.369	i	134.03				03.883	2	114.48	1	9 1	Sm 11	ł
96.473	3	133.75	0,16		1	04.001	3	114.18	1	1	ъ.	
96.758	ī	133.01	0110			04,141	Ž	113.61		1 1		R, l
96,879	3 1	132.70	ا ۽ ي		1	04.320	i	113.35	1	1		S,, 9
70,017	, ,	132.70	Nus			04.320	1 1	113.35		}		
96.946	7	132.52	0,19			04.647	1	112.50	1 1	ìì		]
97.076	1	1.2.18		1	1 1	04.768	2	112.19				1
97.102	2	131.91			S <sub>23</sub> 13	04.914	1	111.81	1 1	} }		}
97.305	1	131.59			-	04.057	1	111.43	į	1 1		ł
97.423	4	131.28				05.316	1	110.76		1 1		
97.501	2	131.08	٠.		1 1	05.419	1	110.49	l i	i 1		•
97.641	ī		029		i i i	05.509	i	110.26	1 1	•		ĭ
	2	130.71					li.			5 f		i
97.757		130.41		N <sub>13</sub> 7	'	05.571		110.10	1 1	1		I
97.847	1	130.18	۱ ا	1	\$ {	05.646	2	109, 91		4 1		T215
97.939	4	129.94	O1210	į į		05.733	2	109.68	N139	1		Rxx
98.039	3	129.68			S <sub>32</sub> 11	05.937	2	109.15		!!		
98.178	1	129.32	1. 1			06.023	14	108.93	i 1	, ,	}	l
98.415	.1	128.70			i	06.191	i	108.49	1	) l		ì
98,533	īa	128.39			1 1	06,272	2	:08.28	1			R, 1
98.802	2	127.69			T317	06.344	2	169.09	i			S,2
					"		ا . ا					
98.908	5	127.42	0,,11			06.424	2	107.89				)
99.000	1	127.18				06.596	1	107.44	1 1	1		1
99.093	3	126.94	N <sub>13</sub> 6	1 1		06.694	3	107.19	1	( )		1
99.229	2	126.58		1 1	1 1	06.778	1	106.97	1	1		S,, 1
99.298	1	126.40		ı i		06.856	1	106.77				l <sup></sup>
99.386	1	126.17		1		06.944	2	106.54		1		l
99.496	2bd	125.89			1 1	07.075	3	106.20		1 (	S 14	•
	3					07.415	í	105.31		1 1	S22 10	1
99.677		125.42	۱ , ,	1 (		07.533	i	105.01		1 1		}
99.829	4 2	125.02 124.74	01212	1		07.744	l i	104.46		1 1		
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200.271	2	123.87		1		07.916	2	104.01		1		R,,1
00.376	2	123.60		1		08.104	1	103.53	1			~
CO.472	1	123.35	1			08.254	1	103.14	1	1		l
00.579	1	123.07	ì	1	S <sub>21</sub> 12	08.343	1	102.91		•		1
00.715	3	122.72	01313		- I	08,443	5	102.65			R <sub>2</sub> 15	R, 1
00.815	1	122.46		i		08,705	14	101.97				
00.910	5	122.21		1	6 10				1	1		۱. ۱
01.052	2	121.84			S <sub>32</sub> 10	08.852	7 2	101.59		, ,	T314	S,,
01.158	î	121.57	1	.		09.282	í	100.47		į į		S,1
01.310	4	121.57	N <sub>13</sub> 7		S <sub>31</sub> 10	09.454	1	10u 099.3.				
			"			i i	İ			1		
01.472	1	120.75				09.827	1	099.06		[ ì		i
01.576	1	120,48	1	Į i	<b>.</b> 1	09.967	3	098.70	1 1	, 1		R,1
01.736	4	120 05	}	}		10.054	1	098.47	[	) 1		1
01.857	1	119.75		1		10.192	3	098.11		I	S21 9	ł
02.187	1	118.89				10.370	1	097.55				R31
02.322	3	118.54			T316	10.497	2	097.32				R,
02.515	2	118.04	]	<b>)</b>	1"31"	10.722	Zbd			j [	Ì	l'''
02,796	2	117.31		1		10.934	3	096.19		1	R. 14	ı
03.013	ĩ	116.74	1	<b>1</b> 1		11.080	ĭ	095.81		i I		l
03.144	2	116.40				11.214	3	095.46		) <b>i</b>		S,,
., .,	,					1	١, ١			<u>[                                    </u>		<b>"</b>
03.287	2	116,04 115.80			1 1	11.39Z 11.548	2	095.00 094.60		R, 10		
	3	115.53	N <sub>13</sub> 8		R3215	11.668	l i	094.29		1	'	S,, 6
U3.317 1			••		1 ["""]	11.796	i	093.96	1 1	1	1	i_,ı,
03.479	2	115.221										
03.599	1	115.22 114.94		1	S <sub>32</sub> 9	11.887	5	093.72	, ,		[T313	R,,1

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(2) 2 . 22		1/ 222 22				6219.013	2	16 075 20			·
6212.173		16 092.98	l		i			16 075.28			l
12.415	5	092.35		1	R, 11	19.115	5	075.01	1		S <sub>32</sub> 2
12.539	1	092.03	1 1	1 1		19.224	2	074.73			ŀ
12.686	2	091.65		1 1	1	19.341	1	074.43	1		i i
12.958	1	090.95		<b>)</b> 1	1	19.432	5	074.20			R326
	Ī.				1	1	i				
13.096	1	090.59	1			19.504	4	074.01			331 Z
13.200	4	090.32	1	Salis	1 1	19.684	1	073.54			
13.330	. ق	089.98	i	R. 13	:	19.794	4	073,26	R: 13		ł
13.430	6		ì	L KA LS	1	19.860	! i	073.09	24 42		٦ ۾ ا
13.526	i	089.72		1	S32 5	19.924	3	072.92		77 70	R316
13.520	,	089.47			1	17.728	3	012.96		R2 70	T310
13.604	1	089.27			1	19.997	5	072.74	1	i :	R, 6
13.670	3			1			i	072.40	t		A, 0
		089.10	1		R <sub>32</sub> 10	20, 12.5					ſ
13.773	2	088.84		R2113		20.245	2	072.09			1
13.853	3	086.63	l i	i l	S <sub>31</sub> 5	20,379	3	071.75		R <sub>22</sub> 10	1
13.983	1	088.29	į .			20.498	8	071.44		ļ i	R525
	ا ا			1	1						}
14.095	2	088.00			P.,110	20,585	1	071.22			١.
14.203	3	087.72			R, 10	20.672	8	070.99		[	S <sub>32</sub> 1
14.272	2	097.54	R <sub>1</sub> 15		!	20.809	2	070.64			1
14.365	1	087.30				20,925	1	070.34	1		R <sub>31</sub> 5
14.472	l i	C87.02		1		21.011	5	070.12			S <sub>31</sub> 1
				1 :	1	İ					
14.636	1	086.60			Ī	21.076	6	069.95			R2 5
14,763	2	086.27	ì	i i	T312	21,164	1	069.72			1
14.901	2	085.91			-31-	21.249	2	069.50		1	Q 1
	l î			1 1		21.290	4	069.39			-a -
14.990	i	085.68				21.396	5	069.12			ъа
15.180	1	085.19	,		1	211370		007.22			R324
15.327	5	084.81			R329	21.651	6	068,46		8215	ļ
15.408	2	084.60			****	21.807	1	068.06		-41	R214
	5				e. 4	21,929	4	067.75		R <sub>2</sub> 9	
15.491		084.39			532 4	21.997	4	067.57		102 7	$0^{12}$
15.566	1 3	084,19	1		1	22.057	li	067.41			R <sub>2</sub> 4
15.647	3	083.98		R <sub>2</sub> 12		22.051	•	007.41		1	1
15.769	2	083.67			R319	22,127	6	067.23			R333
				1	2017	22,260	lī	066.89			
15.871	4	083.40			R, 9	22.377	6	066.59			l
15.982	1	083.12					1 4			R219	١.,
16.112	5	082.78 082.34		S <sub>21</sub> 7	R <sub>21</sub> 12]	22,462		066.37	H <sub>1</sub> 12		Car
16.282	2	082.34				22.535	3	066.18			R313
16 472	.					22 414	١.	044.00			I
16.477	1	081.84			i i	22.616	1	065.97		1	۱
16.659	1	081.37			_ [	22.684	4	065.79			R332
16.845	3	080.08			R328	22.762	6	065.59			3, 3
16.924	1	080.68			ŀ	22.976	3	065,04			12321
17.059	3	080.33	R <sub>1</sub> 14			23,203	14	054.45			1
					1		١.				l
17.179	1	080.02		[	1 . 1	23,338	1	064.11			t
17,283	2	079.75			R <sub>31</sub> 8	23,402	2	063.94			P. 1
17.389	9	079.48		[5,, 3	R, 8	23,516	5	063.65			C <sub>3</sub> i
17.462	5	079.29		• • •	Tail	23.610	i	063.40			~ `
17.591	ì	078.96			"	23,839	3	062.82		R2 8	1
						]					1
17.807	5	078.4C		R2 11	S <sub>31</sub> 3	23.915	2	062.62			Ω,21
17.922	1	078.10		- 1		24,068	1	062.22			,
18,081	1	077,69			[ ]	24, 181	2	061.93			1
18,213	8	077.35		l i	R337	24.280	7	061.67		R218	8,14
18.283	4	077.17		R2(11	34.	24.368	i	061.45			1 -21,
						1	-				ļ
18.443	1	076.75			<b> </b>	24,446	4	061.25			Q, 1
18.578	2	076,40		, ,	1	24.603	1	060.84			1
18.661	1	076.19			R317	24.706	2	060.58			Ω <sub>32</sub> 1
	7	075.92			R, 7	24.793	Ī	060.35	1		, ~
18.765											
18.765 18.932	4	075.49		3216		24.885	3	060.11	[		1

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						·		<u> </u>			
À	1	v	Cla	selficat 11-8	ion	),	1		Cli	assifica 11-8	tion
6225,045	6	16 059.70	R <sub>1</sub> 11		· · [	6231,242	3	16 043.73		Q <sub>22</sub> 11	
25,148	2	059.44	1	1	ł	31.329	3	043.51		Q <sub>D</sub> 11	
				1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	31.445	1 1			r43**	1
25,241	8	059.20			Q, 11			043.71		!	l
25.354	2	058.90			Q3210	31.557	7	042.92		5 <sub>22</sub> 1	ļ.
25,411	2	058.76			1	31.661	1	042.65			
25.527	١,	058.46	1		İ	31,740	2	042.45			P, 5
	5	058.16		n 2	1 1	31.812	5	C42.26		A 14	23.
25.642				R <sub>2</sub> 7						Q 10	!
25,693	5	058.03		•	Q <sub>32</sub> 3	31.908	3	042.01		Rg 3	i
25.814	] 1	057.72		_	1	32.027	1	041.71			
25.892	6	057.52		[Q <sub>p</sub> 10	C <sup>32</sup> 8	32.128	2	041.45			
25.985	2	057.28				32,230	2	041.19		Q <sub>22</sub> 10	
26.082	ã	057.03	ì I	R217	1 1	32.319	10	040.96		R <sub>21</sub> 3	
					ایما		1,6			wit.	i
26.159	1 1	056.83			Q124	32.431		040.67	R <sub>z</sub> B		!
26,240	3	056.62			C328	32.559	1	040.34			l
26.329	3	056.39			Ω, 3	32.671	6	040.05	Ω <sub>1</sub> 15		
26,420	9	056.15	[Q <sub>32</sub> 5	(C <sub>3</sub> 9	Ω327	32.736	8	039.89		Q <sub>2</sub> 9	
26,523	Ž	055.69	1~12-	'~, '		33.013	2	039.17		/	P, 6
					Q326						r, 0
26.637	1	055.60			ایما	33.079	1	039.00			l
26.736	3	055.34		ا ۔ ۔ ا	Ω, 4	33,184	4	038.73		Q <sub>23</sub> 9	
26.803	9	055,17	`	S <sub>11</sub> 3	Ω, 8	33.281	5	038.48		Q <sub>23</sub> 9 .	R <sub>2</sub> 2]
26.889	1	°34.95			1	33,405	2	038.16			
27.005	10	054.65	•	[0, 7	Q, 5	33,494	Z	037.93			1 .
27.093	6	054.42	i i	Q <sub>2</sub> 14	0,6	33,561	5	037.76	1 1	Ω, 8	1
27.222	١ĭ	054.09		~1 · ·	23 "	33.636	5	037.57			l
27.345	14	053.77		R, 6	1	33.745	3	037.29	1	R <sub>21</sub> 2 S <sub>21</sub> 0	ì
21,073	1	1 "		^3 ~	l i	1		45		231	ł
.7.454	2	053.50				33.869	1	036.97			ł
27.569	4	053.19	R, 10			34.007	3	036.61		Ω <sub>M</sub> 8	I
27.636	1 2	053.02		<b>!</b> :	1	34.114	8	036.34		Q <sub>23</sub> 8	P, 7
27.714	ĺı	652.82		í :	1 3	34.207	1	036.10		_	[ ]
27.786	6	052.63		R216	1	34.293	8	035.88		Ω <sub>2</sub> 7	ł
20.046	١.	25. 26			1		١.				1
28.046	1	051.96			1	34,353	1	035.72			
28.186	] 1	051.60		j	, ,	34,433	4	035.52	Q <sub>2</sub> 14		1
28.308	2	051.29			i 1	34.517	1	035.30		Re 1	1
28.435	5	050.96	l :	Q <sub>2</sub> 13		34.606	2	035.07			l
28.799	1	050.02		]		34.729	5	034.76		Ω <sub>21</sub> 7	1
28.888	2	049.79		Qu13		34,778	9	034.63			i
			i		أتتناما			034.45	R <sub>2</sub> 7		0 71
28.958	16	049.61		R <sub>2</sub> 5	Ω <sub>71</sub> 13]	34.850	9			R <sub>22</sub> 3	Q <sub>34</sub> 7]
29.076	1 1	049.31	1		( )	34.926	4	034.25		Ω, 6	l
29.237	5	048.89	j .	S <sub>21</sub> 2	j i	35.052	3	033.93		ŀ	P, 8
29.312	1	048,70	1			35.257	1	033,40			l
29.395	9	048.49	!	Ra15	1	35,364	4	033.12		Ω336	1
29.534	۱í	048.13				35.467	1	032.86		Q. 5	Q <sub>23</sub> 6]
29.662	14	047.80	1	Q <sub>2</sub> 12	į į	35,575	l i	032.58		-4	
		047.29	<u> </u>	1 mg . *	[ }		2	032.33	0.11	l	ì
29.858	1d 8	046.85	R, 9	1	, l	35.674 35.757	í	032.11	Q <sub>18</sub> 13	l	l
20.021	1 "	210.03	117		j		'	1		l	1
30,119	1	046.62		O2112		35.837	7	031.91			P. 9
30.209	1	046.39	j	Q <sub>23</sub> 12	]	35.894	7	031.76		Q <sub>23</sub> 5	C. 4
30.343	1	046.05	i '		P, 4	35.960	1	031.59	'	Raio	İ
30.482	2	045.69	l	R2 4		36.034	8	031.40		Ω235	i
30.616	ī	045.34	'	] _	1 1	36,123	7	031.17	Q <sub>2</sub> 13		1
30,707	1	045.11				36,238	2	030,88			•
			l		1		3	030.66		Ω, 3	1
30.785	17	044.91	l	0,11	1 1	36.320	6		10.2	Qn4	
30.900	17	044.61	l	R <sub>21</sub> 4	1	36.484		030.24	(Q, 2	Ω <sub>25</sub> 4	P3 10
	11	044.24	5	ŧ	1	36.573	2	030.02		•	ł
31.043	li	043.96		•		36,655	4	029.80		Q <sub>22</sub> 3	[0,1]

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λ	1	v	Cla	seifica 11-8	tion	2	,		CI	aseifica 11-8	tion
5236.776	1	16 029.49				6242.944	Γ.	16 013.66		P <sub>2</sub> 10	B 127
36.882	B	029.23		Ω23	Ω212]	43.004	1	013.50		Pus	P <sub>2</sub> 13]
36.948	5	029.05			P, ii	43.057	p.	0:3.37		P2 11	P2 12]
37.013	2	028.88		Q <sub>25</sub> 1	1	43.134	Į,	013.17	Q128	- 4	- 4 4
37.074	6	028.73	R <sub>1</sub> 6	-	1 1	43.21A		012.96	7,12		l
37.136	1	028.57				1	,				l
37.216	5	028.36		Chas	1 1	43.207	٠,	012.75		Pzig	<b>,</b>
37.289	4	028.17	Q <sub>12</sub> 12	-AD-	P, 12	43.39` 43.46b	,	012.49 012.26		P210	D. 111
37.389	2	027.92	-ш		1 - , 1	43.58	:65	012.02	Ω <sub>2</sub> 8	Pail	Pn13 Pn12
37.487	5	027.67		1	P <sub>3</sub> 13	43.693		011.74	R, 3	- 2	
27 561	3	222.40	,		ا ۱۰ ۱۰	1				ļ '	
37.561 37.657	8	027.48 027.23		Qm1	P <sub>3</sub> 14	43.7	1 2	011.49			1
37.739	5	027.02	Q <sub>1</sub> 12		1 1	43.871		011.26 010.71			
37.844	Z	026.75	,	ì	1 1	44. 7	4	010.52		0234	l
37.925	ī	026.53		•	i i	440"		010.26		V251	•
38.010	,	024 22		]	1 1	14.74	١.				1
38.375	2	026.32 025.38			1	44.367 44.452	2	010.01	0.7		I
36.483	l i	025.11			[ ]	44.528	i	009.59	Ωμ7		ŀ
38.704	lī i	024.54	'	P. 2	1 1	44.557	Ż	009.12			
38.836	3	024.20	Q <sub>12</sub> 11		1	44.633	i	009.20			l
38.923	1	023.98			1 1	44.25	١.	200.00		}	
39.02	i	023.70			1 1	44.899	1 10b	008.95	0.7		ŀ
39.16	i	023.51			1 1	45,251	1	007,74	Q <sub>1</sub> 7		1
39,168		023.35		1	!!	45.516	2	007.06			ł
39.288	iO	023.04	Q, 11		! !	45.632	l i	006.77			
39.323		022.96	R, 5	1	! }	2	Ì				l
39.413	6	022.72		PpZ	i :	45.728	16	005.52	0,26		1
39.523	0	022.44	,	P2 3	!	45.819	6	006,28	R, 2		
39.851	10	021.60		۱.,	ì	45.907		006.05		Oas	
40.180 40.320	3	020.75 020.39	Q <sub>12</sub> 10	P <sub>20</sub> 3		46.012	1	005.79		İ	Ì
					i 1	1					
40.485	1	019.97			!!	46.165	10	005.40	Q, 6		l
40.593	1	019.69			i i	46.264	1	025.15			i
40.684 40.777	1 8	019.46 019.22	Ω, 10		1 1	46.347	!	004.93			
40.844	ĭ	019.05	2110		1	46.515	1	004.50			l
20.001		010 00			İ	į į					l
40.901	8	018.90 018.68		7254 P. 5		46.671	1	003.59			l
41.068	i	018.47		P2 5		46.959		003.37	2135		
41.290	ia	017.90				47.230	ŀ	002.67			l
41.402	id	217.61				47.391	100	002.26	Ω, 5		l
41.521	,	017.31		<b>\</b>	1	1		1	, -		l
41.554	105	017.23	R: 4	Pp5	P. 6]	47.485	1 2	002.02			Ī
41.657	1	016.96	11, 4	*B'	] ~3 °3   }	47.562	6 24	001.8Z	n	೧೫6	l
41.755	5	016.71	Q <sub>12</sub> 9		ļ i	47.756	7	001.32	Pulé		Ī
41.919	1	016.28	-4.		[	47,999	lí	000.70	R <sub>i</sub> 1	1	l
42.050	5	015.95		P <sub>2</sub> 7	1 1	1	١.				1
42.128	7	015.75		P256		48.086	1 5	000.48			l
42.206	10	015.56	Ω, 9	- 20-		48,145	2	000.33	0,14		l
42.285	1	015.34		Pa 15	1	48.358	2	15 999.78	P, 16	1	1
42.354	5	015.17		023		48.494	Ž	999.43	Pµ15		1
42.452	5	014.95		P2 9		i i	10	400.24		i	
			, ,	- 7 -	i 1	48.571		999.24	O <sub>1</sub> 4	i .	i .
	i	C14.73		•	§ 2	48 914		I GOR ET		•	
42.524		014.73 014.59		Pn7		48,814	1	998.61	p. 14		
	1			P <sub>23</sub> 7		48,314 45,955 49,044	4	998.61 998.25 998.03	P <sub>1</sub> 15		

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λ	1		Cl	assificat	ion	λ	1	,	Ci	assificat	ion
						(0.0	├─		<del> </del>	1	
6249.223	1	15 997.56				6254.833	1	15 983.23	ì	1 1	
49.304		997.36	Q <sub>12</sub> 3		1	55.031	1	982.72	İ	i 1	
49.457	1	796.97		1	11	55.182	2	982.34	1	1 1	-
49.538	1	996.76		1	1	55,308	2	982.01	ł	1 1	
49.623	2	996.54	P <sub>1</sub> 14		i	55.441	1	981.68	ì	) i	
							_		ŧ		
49.716	10ь	996.31	Ω, 3	P <sub>12</sub> i3j	1	55.551	5	981.39		O212	
49.824	1	996.03			1	55.625	6	981.20	0,,2	Onil	
49,908	3	995.81	R <sub>1</sub> O	i i		55.775	004	980.82	ſ	1 1	
C. 031	1	995.51		i i	- 11	55.904	1	980.49		!!	
50,116	1	995.29			Ĩ	76. هُ دَ	3	979.29	Ou2	1 1	
50.215	5	995.04	9.13		1	56.519	2	978.92	N. 7	0 12	
	3		P. 13	1		56.584			Nu2	O <sub>20</sub> 13	
50.287		994.85	P1212		- 13			978.75	O <sub>12</sub> 3	i i	
50.367	2	994.65			11	56.704	1	978,45		1	
50.427	4	994.49	Qu2		11	56.811	2	978.17		1 1	
50.525	1	994.24			1	57.116	1	977.39		1 1	
50.617	5	994.01		O <sub>23</sub> 8	- 11	57, 221	4	977.13	0,,3		
50.678	1	993.65		~23°	11	57.359	2	976.78	ບມ່າ	اندما	
			p ::	20. 121	H		2			On14	
50.742	9	993.69	Pull	P <sub>1</sub> 12]	. 11	57.425		976.60	ا ہا	1	
50.815		993.50	Q <sub>1</sub> 2		- 11	57.517		976.37	0,24		
51.019	1	992.98			- 1	57.661	1	976.00		1 1	
51,145	6	992.66	P <sub>13</sub> 10		j	57,816	1	975.61		1 1	
51,207	8	992.50	D. 11		- 11	57.916	i	975.35		1 1	
	i		P <sub>1</sub> 11		- 11	58.007	l i			1 1	
51,274		792.33	Pull		- 11		3	975.12		ı	
51.336	2	992.17			- 13	58.119	3	974.83	0114	1	
51,431	1	991.93			- 11	58.213	'	974.59			
51.501	10	991,75	P119	Ωμ1]	. 1	58,309	2	974.35			
51.605	6	991.48	P, 10		- 11	58.423	10	974.06	0,25	[נעא	
51.698	2	991.24	Pulo		11	58.527	i	973.79	-13	[n., ]	
51.786	8	991.02		1	11	58,635	i	973.52		1	
51.870	10	970.88	P <sub>12</sub> 8 Q <sub>1</sub> 1		- 11	58.909	i	972.82			
					- 11					1	
51.948		990.60	P, 9		- 11	49.006	5	972.57	O <sub>19</sub> 5	i 1	
51.991	3	990.49		. 1	11	59.097	1	972.34		; }	
52.029	10b	970.39	Pu7	0259	- 11	59.205	1	972.06		1	
52.132	1	990.13	- 1	1	- 11	59.297	7	971.83	Ou6	1	
52,232	10	989.87	Pu6	P, 6]	- !!	59.440	2	971.46		1	
i	J	1	-		- 11						
52.312	2	989.67	P118		- 11	59.587	1	971.09		1	
52.393	10	989. 36	P125	1	11	59.716	2	970.76		1	
52.478	9	969.24	P <sub>12</sub> 5 P <sub>1</sub> 7	1	- 11	59.811	2	970.52			
52.519	9	969.14	P <sub>13</sub> 4	1	- 11	57.863	3	970,39	0,,6		
52.608	16	988.91	P <sub>12</sub> 3	Pu7]	- 11	59.947	Ā	970.17	,-		
i	. 1				- 11	40.000			l	i i	
52.672	?	988.75	P, 6	PuZ	- 13	60.022	2	969.98		1	
52,717	9	988.63	P <sub>13</sub> 1	l	- !!	60.128	10	969,71	0,17		
52.769	2	988.59		1	11	60.214	3	969.49		1	
52.825	10	988.36	P, 5		- 11	60.300	1	969.27	1		
52.885	2	988.28	-	1	- 11	60.373	3	969.08	N3.4	1	
52 026	6		i	İ	- 11	40,430		0(2.25		:	
52.936 53.013	10	988.07 987, <b>88</b>	P. 4	P. At	- 11	60.470 60.580	1 2	968,78		1	
53 045			P <sub>1</sub> 3	P. 0	11		4	968,55		1	
53.065	?	987.74	P1 4	P, 1]	- 11	60.688		968,28	0,7		
53.225	4	987.34	. Pu3	امدما	- 11	60,812	7	967,96		1	
23.614	•	987.21		0,10	11	60.918	•	967.69	O <sub>L3</sub> 8	ì	
53,380	1	985.94	P <sub>1</sub> ,2	1	- 11	61,034	1	967.40			
	i 1	986.09			11	61,301	i	966,72		1	
53.712	6		1	0:11	11	61, 397	1	966.47	1	1	
		984.16 983.94		0211	- 11	61.397 61.487	3	966.47 966.24	0,,8		

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مستنحة لب عبد للكرند بالمستجاد شند ست

Γ				6	lassif				Γ	1		lassificat	ion
L	λ	I	,	11	-8	1	0-7	1 2	1	v	11-8	10-	7
Γ	6261.667	10	15 965.78	0,19	i			6269.323	1	15 946.28			
1	61.761	l i	965.54	011,		ĺ	1 1	69, 431	2	946.01			1
Ł	61.827	1	965.37	i	1	i	1 1	69.580	lī	945.64			ł
1	61.883	3	965.23	l	1		1 !	69.748	1 2	945.21	1		1
1	62.052	ĺí	964.80			ŧ	1 1	69.841	13	944.97	N <sub>13</sub> 9		i
Ł	02.052	1 1	703.00		į į	ē	1 1	1 0,.01	1	777.77	7473.5		
1	62.160	2	964.53	,		ı	) [	69.935	1	944.73			R <sub>3</sub> 16
1	62.220	4	964.37	0,9			ł 1	70.013	Ž	944.54		ł .	,
1	62.320	5	964.12	Nu5	•	ł	1 1	70.119	ž	944.26			
1	62.365	5	964.00	0110	t	2	1 1	70,269	lī	943.88			1
1	62.459	ī	963.76	011.0		ı	1 1	70.422	li	943.50			
i			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1		1 1		1	,			
Ī	62.578	2	963.46			ľ	1 1	70,572	3	943.11			T216
1	62.905	2	962.63	01210	1	i i		70.723	11	942.72			-24
1	63.009	7	962.36	0,311	1	1	5,2 12	70.821	li	942.48			
ı	63.212	1	961.84				T,18	70.978	13	942.08			
1	63.412	2	961.34			8		71.083	1	941.82		1	
I	- 1				1		1 1	i	1	1 !		·	
1	63.545	2	961.00	0,,11				71.323	2	941.20		ŀ	· !
1	63.598	4	960.86	0,12		l l	j l	71.404	1	941.00			
1	63.691	1	960.62			•		71.478	2	940.81		!	
ı	63.838	2	960.25		[	ı	1 1	71.582	[ 2	940.55			
1	63.943	1	959.99			ı	i i	71.729	12	940.17			
•							1 1	1 .	]	1 1			
ı	64.118	6	959.53	$O_{12}13$	0,,12		i i	71.896	3	939.74			P.3215
1	64.242	4	959.22	N <sub>13</sub> 6	1	1	1 1	71.973	1	939.55			
ļ	64.328	1	959.00			,	1 1	72.066	5	939.32			5,29
ı	64.583	3	958.35	O <sub>12</sub> 14			1 1	72.147	5	939.11		S <sub>21</sub> 11	
ı	64.659	2	958.16	0,13			l. I	72.263	2	938.82			
l						1	1 1						
l	64.747	1	957.94	1		1	1 1	72.340	1	938.62			
1	64.851	1	957.67		1	1	1	72.423	3	938.41			R <sub>2</sub> 15
ı	64.968	3	957.37	O <sub>13</sub> 15	i 1	ĺ	1 1	72.543	2	938.10		l i	Silè
}	65.072	2	957.11		1	i	1 }	72.770	2	937.53		i	
1	65.229	2	956.71	Q1216		1		72.902	1	937.19			
L						}	l i						
	65.392	4	956.29	Q <sub>12</sub> 17		i		72.969	3	937.02		•	
	65.532	2	955.94	O <sub>13</sub> 15		ı	l i	73.536	1	935.58		1	
ŀ	65.636	1	955.67			1	1	74.038	2	934.30			T315
	65.764	3	955.35			1	i i	74.144	1 .	934.03			
	56.042	1	954.64			İ	1	74.257	2	933.75			R <sub>32</sub> 14
	66.143	7	954.38	N. 7		1	S <sub>32</sub> 11	74.789	2 d	932.40	-	10.14	
	66,256	i l	954.09	N <sub>13</sub> 7	1	I	** ***	75.446	0	930.73	1	[R <sub>3</sub> 14	S <sub>32</sub> 8
	66.554	3	953.34					75.612	2	930.13	- 1	S <sub>21</sub> 10	
l	65.688	3	952.99	1	1	l	1	75.849	lî	929.70		1	1
1	66.819	í	952.66	- 1	}	[		76.042	2	929.21			
l	/	- 1	/52.00			1 1	1	1	"	707.01			
	66.910	1	952.42	1			1	76.274	164	928.63	1		
Ì	66.983	Ž١	952.25		1	1	T31 7	76.489	15	928.08			R <sub>32</sub> 13
ı	67.079	Ž	952.00	1		1		76.616	3	927.76			251.
	67.342	Ž	951.30	1	1		R, 17	76.763	l i	927.38			
ı	67.646	ī	950.55	- 1	[			76.871	3	927.11	1		
l	1	- 1	1								1		
	67.893	2	949.92	ı	ļ			77.024	2	926.72			R <sub>2</sub> 13
	67.996	5	949.67	N138	ŀŀ			77,137	0bd	926.44	í		
	68.113	1	949.35	- 1	l i		i	77.382	6	925.62	- 1	[T314	5,17
ĺ	68.360	Z	948.74	į	1			77.834	1	924.67	ì	• • •	S,, 7
	66.493	1	948.40	ı				78.230	2	923.66	1		"
		. 1	1	- 1	· Ł	1	1						1
i	68.608	1	948.11	1	ĺ		i	78.480	2	923.03	i		
	68.716	2	947.83	l	i	S <sub>21</sub> 12		78.569	1	922.80		1	Ruiz
										000 001			
	68.969	2	947.19	ļ	1			78.652	2	922.59	•	5219	1
		1 2	947.19 946.86 946.60		1		S <sub>32</sub> 10	79122 79267	1	922.59 921.40 921.03		S <sub>21</sub> 9	R, 12

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6279.507	1	15 920.42				6207.057	3	15 901.31	1	, ,,]	
79.832	4	919.60	1 1		S32 6	6287.057	7		f	R <sub>21</sub> 11	
	ī	919.23	1		3320	87.092		901.27		- 1	R327
79.980	3		i i			87.218	3	900.90	1		
80,109		918.90			c i	87.460	i	900.29	ŀ	4	
80.280	1	918.47	i i		S <sub>11</sub> 6	87.563	3	900.03	ļ ļ		R317
80.387	1	918.20	· 1		i	87.665	8	15 899.77	1	66	p 7
80.524	5	917.85	1 1	[R <sub>32</sub> 11	T313	87.932	li	899_09		S <sub>21</sub> 6	R <sub>3</sub> 7
80.640	lí	917.55	1 }	[1,132	-31-	88.018	6	878.88			S
80.737	Ž	917.31	1		1	88.200	ld	898.41		1	532 2
80.934	164	916.81	l -		1	88.351	5	898.03			R326
			1								
81.104	4	916.38			R <sub>2</sub> 11	88.417	3	897.87			S1, 2
81.260	1	915.98	1 1	1	1	88,529	3	897.58	R, 13		
81,405	[ ]	915.61	1 1			88.658	1	897.26	'		
81.502	1	915.37	1 !			88,761	Z	897.00		R <sub>2</sub> 10	
81.662	2	914.96	1 1			88.861	5	896.74		_	T310
	1	:	1		l l	1	1		1		
81.760	2	914.72		S <sub>21</sub> 8	[	88,938	5	896.55	1		R, 6
81.865	[ ]	914.45	1 1			89.035	l i	896.30		. 1	
81.959	1	914.21	1 1	R <sub>2</sub> 13	[	89,140	1	896.04			
82.125	8	913.79	1 1		S <sub>32</sub> 5	89.215	3	895.85		R2110	
82.327	1	913.28	i i			89.331	2	6 <del>9</del> 5.56			
82.413	2	913.06	1 1	ъ 11	0 13	90.400	2	895.38			
	1 5		1	R <sub>21</sub> 13	R,210	89.400					
82.561	6	912.69	امروا		S31 5	89.456	9	895.24			R325
82.737	li	911.94	R, 15		D 10	89.547	9	895.01			
82.856 82.955	ż	911.69	]		R <sub>31</sub> 10 R <sub>3</sub> 10	89.631 89.800	1	894.80 894.37			5,2 1
00.755	} ~	,,,,,,,	1 1		,	37.000	١.	0,7.37			Q3215
83.105	1	911.31	1 . 1		1	89.902	1	894.11		•	R315
83.360	3	910.66				89.981	4	893.91			Sni
83.427	1	910.49	1 1		i	90.048	8	893.74	1		R, 5
83.504	3	910.30	1 1		T312	90.196	164	893.37	1		
83.655	1	909.91	1 1			90.341	2	893.00			Q <sub>3</sub> 15
02.043	١.		{			ł	i .				l
83,763	1 1	209.4	i i			90, 163	6	892.90			R324
83.886	14	909.33	!!			90.489	6	892.63	j	S21 5	L .
83.991	1	909.07	i i			90.820	1 4	891.79		R <sub>2</sub> 9	R314
84.112	5	908.76	1		R329	90.374	1 1	891.66			l
84,189	1	908.56	1 1			90.946	1	891 48	1		1
84.259	5	908.39	}	1	S <sub>32</sub> 4	90.998	4	891.35	1		R, 4
84.327	Ž	908.21	1 1	R <sub>2</sub> 12	-,,,	91.055	Ž	891.20	i i	l	, .
84.392	ì	908.05	!!	-		91.139	1 8	890.99		l	R323
84.519	14	907.73	]		R319	91,210	li	890.81	]	i	
84.670	6	907.35	1	[R, 9	S31 4	91.274	6	890.65	R, 12	R219	l
			1		1	1	1	1	1	-	1
84.769	5	907.10	1 1	S <sub>31</sub> 7	R2112]	91.386	1	890.37		1	1
84.917	1	906.72	; l			91.489	1	890.11	1	l	Q <sub>3</sub> 14
85.102	1	906.25	I		) <u> </u>	91.561	1.5	889.92	į į	Į.	R313
85.213	3	905.97	1 I			91.635	1 1	889.73		1	l
85.397	1	905.51	į l			91.723	5	889.51		I	R <sub>33</sub> 2
85.678	4	904.80	<u> </u>		R328	91.793	6	889.34	i	l	R, 3
85.881	l i	904.28	1 1	-	****	92.039	li	868.71		ł	011
86.119	ō	903.58	1 1		R318	92.354	١i	887.92	1	ļ	Ω <sub>32</sub> 13
86.225	9	903.41	į 1	[S <sub>32</sub> 3	R, 8	92.452	l ż	887.67	1	l	R, 2
86.291	6	903.24	1 1	,,	Tyl	92.588	4	887.33	1	1	0, 13
		1	1 1		"	1	1	1		Ī	_, _,
86.472	2	902.79	ļ l			92.692	1	887.07	i	ŀ	1
86.586	2	902.50	i i	R <sub>2</sub> 11		72.786	3	886.83	į	R4 6	l
86.645	5	902.35	, 1	· .	S <sub>31</sub> 3	92.990	1	886.32	I	l	1
86.791	1	901.24	į i		1 1	93,102	1	866.03		l	ł .
86.955	1	901.56	1			93.221	7	885.73	!	S <sub>21</sub> 4	R218]
i .											

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	1		С	lassificat	ion	\	1	Ų	C	assifica	tion
6293.345	1	15 885,42		10-7		6298.990	1	15 871.18		10-7	
93.431 93.515 93.585 93.705	1 4 1	885.20 884.99 884.81 884.51			Q <b>,</b> 12	99.057 99.205 99.269 99.331	7 1 2	871.01 870.64 871 13 871) 32	R <sub>1</sub> 9	Ω <sub>11</sub> 12	
93.859 93.928	1	884.13 883.95	R, 11		Q <sub>32</sub> 11	99.429 99.531	î	. 6 '6.08 869.82		Ω <sub>0</sub> 12	
94.034 94.275 94.399	1 2 7	883.68 883.07 882.76			Ω, 11	99.635 99.797 99.877	3 1 1	869.56 869.15 868.95		R <sub>2</sub> 4	P <sub>3</sub> 4
94.503 94.584 94.645	1 1 5	882.49 882.29 882.14		R <sub>2</sub> 7	Q <sub>32</sub> 10	99.946 6300.023 00.070	1 7 7	£55.77 868.58 868.46		Q <sub>6</sub> 11 R <sub>21</sub> 4	
94.716 94.796	3	881.96 881.76		Q <sub>2</sub> 15		00,133 00,404	1	868.30 867,62		•	
94.845 94.936 95.052 95.091	1 3 9	881.40 881.11 881.01		[O, 10	Ω <sub>32</sub> 3 Ω <sub>32</sub> 9	00.485 00.581 00.657 00.734	2 2 1 7	867.42 867.17 866.98 866.79		Ω <sub>11</sub> 11 Ω <sub>23</sub> 11	
95.213	1	860.70		R <sub>24</sub> 7		00.907	3	866,35		S <sub>21</sub> i	
95.324 95.429 95.497 95.605 95.647	2d 2 4 9	880.42 880.16 879.99 179.71 6'9.61		Ω <sub>23</sub> 15	Ω <sub>32</sub> 4 Ω <sub>72</sub> 8 Ω <sub>3</sub> 3 Ω <sub>32</sub> 5 Ω <sub>32</sub> 7	00.991 01.066 01.119 01.337 01.429	1 5 1	866.14 865.95 865.82 865.27 865.04		Ct 10 Rg 3	P <sub>3</sub> 5
95.717 95.819 95.923	8 5	879.43 879.17 878.91		821 3	Ω <sub>34</sub> 6 Ω <sub>3</sub> 4	01.530 01.626 01.759	19 1 2	864.78 864.54 864.21	R <sub>1</sub> 5	R <sub>21</sub> 3 O <sub>C3</sub> 10	Q <sub>33</sub> 10
95.989 96.051	6	878.75 878.57			C), 8	01.892 02.017	3 7	863.87 863.56	Ω <sub>1</sub> 15	Q <sub>2</sub> 9	
96.191 96.222 96.284 96.401 96.519	10 10 7 2 3	\$78.24 578.16 878.00 877.71 877.41	R <sub>1</sub> 10	Ω <sub>2</sub> 14 R <sub>2</sub> 6	0,5 0,7 0,6	02.296 02.432 02.483 02.564 02.700	1 2 5 4 1	862.86 862.51 862.39 %62.13 .41.84		R <sub>4</sub> 2 Q <sub>29</sub> 9	P <sub>3</sub> 6 Q <sub>31</sub> 9]
96.760 96.353 96.904 96.975 97.058	1 5 1 4	876.80 876.57 876.44 876.26 876.05		O2114 R <sub>M</sub> 6	Q <sub>23</sub> 14]	0%.783 02.881 02.992 03.071 03.149	1 7 3 1 1	861.63 861.38 861.11 860.91 860.71		R <sub>41</sub> 2 S <sub>31</sub> 0	Q <sub>2</sub> 8]
97.169 97.400 97.621 97.771 97.868	2 1d 4 1	875.77 875.19 874.63 874.25 874.01		Ω2 13		03.210 03.328 03.430 03.502 03.599	3 3 1 8	860.26 860.26 860.00 859.82 859.58	Q <sub>12</sub> 14	ਹੁੰਦੀ ਹਵਾਲੇ ਹਵਾਲੇ	9.7
98.072 98.163 98.330 98.412	6 1 5 1	873.50 873,27 872.84 872.64		R <sub>2</sub> 5 Q <sub>22</sub> 13 S <sub>21</sub> 2	Q:13]	03.721 03.790 03.886 03.958	3 1 1 8	859.27 859.10 850.86 858.67	Ω <sub>1</sub> 14	Og 7	P3 7
98.509 98.609 98.721 98.824 98.872 98.928	10 1 2 3 2	872.39 872.14 871.86 871.60 871.48 871.34		R <sub>21</sub> 5		04.014 04.063 04.147 04.182 04.253 04.556	1 5 8 8 4	858.53 858.41 058.20 858.11 957.93 857.17	• -	Cu7 Rn1 Cu7 Qu6	P3 8

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400.400			<u> </u>								
6304.635	2	.5 856,97	-			6310,331	1	15 842.65			1
04.700	3	856.81	l	Q <sub>21</sub> 6		10.434	8	842.40		P206	•
04.809	7	856.53	٠ ا	Ω <sub>23</sub> 6	(3, 5]	10.519	3	842.19	ļ.	P <sub>2</sub> 5	ì
04.956	2	856,16				10.710	1	841.71	1	1	j
05,243	8	855,44	IRato	Q <sub>21</sub> 5	Q <sub>2</sub> 4	10.813	1	841.45		1	}
05.307	1	855.28				10.920	1 7	041 10		1	1
05.383	9	355.09	į	امدا	P, 9	10.979	li	841.18	P, 4	}	l
05.441	1	854.94	A 12	Q <sub>25</sub> 5	F3 7	11.053	li	841.03		i	}
05.511	l i	854.77	Ω <sub>1</sub> 13					840.65 840.68			n 41
05.588	4	854.58		0.3		11.120	10	840.46	n a	P215	P, 6]
03.300	} -	333.30		Ω <sub>2</sub> 3		11.200	,	3 010.40	C)129	i	1
05.673	3	854,36		Ω214		11,309	3	840.20			ł
05,729	3	854.22				11.397	lī	839.98		]	ì
05.791	ī	854.06		1		11.473	1 3	839.79		ł	1
05.862	5	853.89		Qu4	Da 2	11.563	1 3	839.57	1	l	[
05.939	ī	653,69		~a.		11.666		839.31	Q; 9	P <sub>2</sub> 7	l
1	,					1			148		ł
06.026	6	853.47	[Q <sub>2</sub> 1	$\Omega_{21}3$	P. 10	11.720	7	839.17		Pzs	1
06.146	1	853,17	• •		•••	11.829	li	838.90			ł
06.257	9	852.89		Q333	Q <sub>1</sub> 2]	11.932		838.64	I	0,33	I
06, 320	6	652.73	R <sub>1</sub> 6	-34-		12.912	ī	838.44		~~	ı
06.405		652,52		Qui		12.085	3	838,26	ł	Pas	l
							•				ł
06,464	1	852.37		1		12.155	2	838.08		P, 15	ì
06.533	5	852.20			P, 11	12,231	10	837.89		P257	
06.610	6	852.00	Q <sub>12</sub> 12	$\Omega_{20}2$		12.313	1	637.68		_	
06.696	1	851.79				12.400	4	837.46		P <sub>2</sub> 9	i .
06,900	2	851.28			P <sub>3</sub> 12	12.470	1	#37.29		P <sub>2</sub> 14	
26 222	١. ١	05. 00					. :				
06.978	1	851.08				12.549	1	837.09			
07,055	9	850.89	!	Qu1		12.618	6	836.92	Que	P <sub>3</sub> 10	
07.105	6	850,76	Ω <sub>1</sub> 12		P <sub>3</sub> 13	12.653	7	836.63	ļ	Pns	P <sub>2</sub> 13]
07.181	1	850.57		[P <sub>s</sub> 15	P, 14	12.739	4	836.61		P2 11	P. 12
07.339	1	850.17				12.832	1	A36.38			
07.662	2	849.36				12.903		836,20	1		
07.747	2	849.13				12.907	â	836.04		200	
07.951	ĩ	848.64				13.021	ľ	835.91		P219	
08.089	3	848.29		1, 2		13.076	à	635.77	0.4	Pzs14	
08.219	3	847.96	Q <sub>12</sub> 11	•		13.152	1 2	835.58	Q <sub>1</sub> 3 R <sub>1</sub> 3	P2:10	
			14,600			1	1 -	033730	2.1	- 23.0	
08.323	1	847.70				13.205	6	835.44		P <sub>23</sub> 13	
08.480	2	847.31			•	13.292	7	835.23		P211	Pn12]
08.558	1	847.11				13.393	1	834.97			
08.642	10	846,90	R <sub>1</sub> 5			13.474	2	834.77			
08,682	10	646.80	Q <sub>1</sub> 11			13.544	1	834.60			
	١. ١	ا ۽ بيوا				1	١. ١				
08.753	1	846.62	i i			13.628	1	834,38	1		i .
08.820	1	846.45		!		13.730	1	834.13			I
08,881	7	846.30		P <sub>21</sub> 2 P <sub>3</sub> 3	•	13.816	•	833.91	,	Også	I
09.033	14	845.92		1,3 2	1	13.887	1	633.74			1
09.246	24	845,38				13.968	6	833.53	Q <sub>13</sub> 7		
09.339	Zd	645.15			ì	14.089	1	833.23		[	
09.550	lbd	844,62				14.236	li '	832.86			ĺ
09.635	2	844.40			1	14.349	i	832.58			I
09.677	10	844.30		P <sub>23</sub> 3	1	14.427	10	832.38	Ω, 7		I .
09.740	ž	844.14	Q <sub>12</sub> 10	- 0-	1	14.646	1bd	831.83	~4 ·		
					1	1	1			1	l
09.826	1	843.93		P <sub>2</sub> 4	i	14.861	14	831.29			}
09.929	2	843.67			İ	15.125	164	830,63	·		ŀ
10,035	1	843,40				15.278	5	830.25	Qué		
10.156	2	843.15	١		ļ	15.343	6	830.08	R. 2		
10.206	7	842.97	Ci <sub>1</sub> 10		ł	15.438	1	829.85	- '		1
						<b>.</b>	<u></u>			L	

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λ	1	٠	C1 10	ansificat	9-6		1	y		aseifica -7	ion 9-6
4216 624	<del> </del>	15 830 /3				6222 426	-	16 314 51	B 16		
6315.524	1	15 829.63		اما	1	6321.436	5	15 014.83	P <sub>1</sub> 10		I
15.627	8	829.37		O <sub>23</sub> 5	1	21.511	1	8:4.64	Pulo		ł
15.727	9	829.12	0,6	1	!!	21.600		814.42	P <sub>12</sub> 8	$Q_1$ $I$	i i
15.911	1	828,66			1 1	21.675	1	814.23			
16.259	3	827.79				21.730	1	814.09			ì
14 20E	١.	037.45	}			21 224	,	012.00	-		t
16.395	1	827.45	~ -		! !	21.774		813.98	P <sub>1</sub> 9		t
16.544		827.08	Ω <sub>12</sub> 5		i i	21.837	10	813.82	Pu7	•	•
16.74	1	826,56			1 1	21.906	1	813.65	Pug		
16.564	2	826.27			l i	21.981	7	813.46		0,49	i .
16.991	10	825.96	Q <sub>1</sub> 5		l i	22.024	8	813.36	Pu6		
17,139	1	825.58			1	22.056	8	813.25	P1 8		ł
17,223	Ž	825.37	P <sub>1</sub> 17		i i	22,108	ĭ	813.15	-,,	!	•
17.354	5	825.05		0246		22.181		812.96	- x	n e1	ł
17 423	li			CX	. ;		ž		P125	P138]	1
17.423 17.496	6	824.87 824.69	9.1			22,240		812.82 812.68	D.4	D 71	l
11.770	١.	024.07	R <sub>1</sub> 1					312.08	P114	P <sub>1</sub> 7]	
17.665	1	824.27			1 1	22.388	10	812.45	P123	P137]	1
17.768	5	824.01	Q124			22.456	9	\$12.28	PizZ		I
17.868	1	823.76			i 1	22.490	10	812.17	P <sub>13</sub> 1	P, 6]	•
17.951	2	823.55			1 1	22.546	1	812.05			•
18,050	1	823.30	P1 16		1	22.621	iô	811.86	P, 5	Pu6]	$Q_1 0$
13,140	1	823.08			1	22.676					
			اما		i i		7	8:1.72			
18.206	9	822.91	Q <sub>1</sub> 4		1	22.728		811.59	P <sub>1</sub> 4		
18.318	2	822.63	P1115		1	22.801	9	811.41	P. 3	P <sub>13</sub> 5	P, 0]
10.571	1	822.00			1	22.849	9	811.29	$P_{1}$	P, 2]	
18.669	1	821.75			l i	23.034	1	810.83	Pu3	, ,	
18.793	3	821.44	P, 15			23.114	1	810,63			ŀ
18.887	l i	821.21	- 3			23.208	i	810.39	133		ł
18.957	8	821.03	0.1		i i	23.323	4		P <sub>13</sub> 2	0 13	
			Ωμ3		1			\$10.11 550.70		0,10	
19.079	8	820.95 820.73	P <sub>12</sub> 15	Q <sub>23</sub> 7		23.486 24.123	1	609.70 808.11	P <sub>13</sub> 1		l
2,,,,,,,	•	020.13			ì			000			
19.181	2	820.47				24.469	8	807.24	Out		I
19.291	1	820.19	1	1	1	24.572	5	806.98		O <sub>22</sub> 11	i
19.377	10	819.98	0.3		1	25.077	0	805.72			T,110
19.458		819.78	Q <sub>1</sub> 3 P <sub>1</sub> 14		1	25,498	7	804.67	Ouz	0,,1]	- ","
19.578	-	819.40	Pul3	R <sub>1</sub> 0]	1	25.608	1	604.40	~ <b>,,,</b> ,	-,,,,	ŀ
10 023	ا , ا	710 64			1						
19.832	14	619,54				25.715	2	804.13		O <sub>23</sub> 12	3
19.949	16	818.55		ا ـ ـ ـ ا		25.954	2	£03.53			į.
20.056	4	018.28	P, 13	P <sub>12</sub> 12]	l i	76.241	2	892.81	Ouz		1
20.116	5	818.13	D135	[ ]	ŀŀ	26,348	1	202.55			ì
20.223	1	817.86				26.426	1	802.35	N <sub>13</sub> 2		
20.357	14	817.53				26.498	10	802.17	Ous		ľ
20.446	1	817.30				26.637	1	801.83			
20.517	9	87 /. 13	Q <sub>1</sub> Z	0238		26.718	3	801.55		O <sub>23</sub> 13	
20.576		816.98		P <sub>1</sub> 12]	l i	26.890	í	801.19	-	~B.,	l '
20.661	1	816.77	P <sub>12</sub> 11	-11		27.029		800, 85			Ī
	. '				l }	<u> </u>					
20.751	J.	816.54			T9111	27.076	1	800,68			•
20.631	1 :	816.34		i	] }	37.162	4	600.51	713		
20,908	1 .	816.15				27.283		800.21			ł
20.973	5	815.98 815.82	P <sub>12</sub> 10			27.400 27.475	8	15 799,72 795,75	6.4		
21.040	١'	0.7.02	P <sub>1</sub> 11			1	"	137.73	0124		á L
21.117	1	815.62	Pull			27.684	1	795.23		Onla	Š
21.187	1	315.45		1	: 1	27.807	1	798,90			4
21.241	4	815.31	Qui			28.096		15.18	399 4		3
	9	815,14	P119		1	28,343	2	797.55	1	t i	i
21,309	7	******					טו ו				

ii.

l.	Ī	v	Cla 10-7	exifica	tion 9-6	λ	1	ŗ	20-7	lassifica 9-	
6328.507	1	15 797.16	1	O <sub>23</sub> 15		6336.444	4	15 777.37	N <sub>13</sub> 7		
28.633	i i	795.54	}	V. 3. 3	ł	36.609	ī	776.96	**133*		
28,847	i	796.31	1		1	36.927	ī	776.18		1	
28.946	i	796.06	1			37.094	3	775.75		1	1317
29.022	5	795.87	0,5		1	37.323	25d	775.18			*31.
	i !		- 1							1	
29.196	1	795.46			T319	37.557 37.624	2	774.60			
29.335	2	795.09 794.03	0136			38,235	i	774.43		i t	
29,,759	3		\$	· · · · · · · · · · · · · · · · · · ·	ı <b>i</b>	38,405	2			• •	
29.834 29.930	3	793.84 793.61	0,,6			38.551	Ź	772.49 772.12	Nass	1	
_,,,,,			-B-			]					
30,040	1	793.33		1	į	38.702	1	771.75			
30.131	1	793.10		1	1	38.838	2	771.4		1	
30,213	10	792.90	0.7	2		39.026	2	770.96		l i	
.443 5.,443	2	792.62			1	39,202 39,271	1 5	770.50 770.33			
A 14 4 18 19	-	792.32	N <sub>13</sub> 4			37.27		110.33			
. 564		792.02				39,426	2	769.95			S <sub>32</sub> 1
16.602	1	791,73	i .		l i	39.555	1	769.60		ı l	
30.790	4	791.46	0,,7	l	1	39.719	1	769.22		1	
31,046	6	790.82	0.33	1		39,844	2	768.91			
31.118	3	7911.64			1	40.008	1	768.50			
31,285	3	790,22			1	40,299	4	767.77	N139		
31,401	i	789.94		1		40.466	li	767.36	0,	1	
37,524	2	789.63				40,547	i	767.16			
31,620		789,39	0,,8			40,758	li	766.63		l i	
31. /03	2	789.18		1	1	40,852	2	766.40		]	T216
39 436	9	700.05		1	i	40.982	1	766.09	1	1	•-
31.338	1	788.85 788.60	0119			41.119	3	765,74			
37.212	4	787.91	1	1	1	41.583	ī	764.58		} }	٠.
32.397	2	787.45	0,9			41.788	li	764.07		1 1	•
32.466	5	787.28	N <sub>D</sub> 5	ł	ì	42,039	i	763,45		l I	
			1		. 1	43 155	١.	.,			
32.579	4	787.00	Outo			42.177	1	763.11	N <sub>19</sub> 10	i	
32.697	1	786.70	1			42,270	2	762.88		2 1	
32.795	1	786.46	1			42,348	5	762.68		i	
32.886 33.129	2 2	786.23 785.63	0.16		S <sub>32</sub> 12	42,393	i	762.56 762.27		1 1	S <sub>32</sub> 9
23.167	•	105.05	0210		032 12		-	1		l i	
33.212	1	785, 42		Į	T318	42.645	2	761.94			
33.267	5	785,28	0,211	3		42.846	3	761.44	i	1	5,, 9
33.700	3	784.20			i I	42.98;	1	761.11		li	•
33.817	1	783.91	0,,11			43.126	5	760.75		l i	
33.889	3	783.73	01312			43.988	id	758.61	N <sub>13</sub> 11	ì	
33.971	3	783,53				44.245	14	757.97			
34.456	5	782.32	0,213	N,,6]		44,437	5	757.49		<b>i</b> }	T315
34.538	1	782.12			[	44.643	1	756.98		l	
34.673	2	781.78				44.737	1	756.75	i	]	
34.955	2bd	781,08	O <sub>15</sub> 14	i		45.091	1	755.87			-
35.235	1	780.38				45.222	4	755.54		1 1	S12 8
35.383	2	780.01	01215		1	45.285	3	755.38			-,,
35.570	14	779.54			1	45.410	1	755.08		1	
35.728	1	779.15	Ou16	1		45.506	1	754.84			
35.793	3	778.97		į	.	45.575	2	754.66		•	
35.981	4	778.52		į		45,619	3	754.56	ļ		
16 050	2	778.33	1	1	1	45.690	i	754.38	١.	1 1	S,1 6
יירט.טע				1					1 .	. 1	~)1 0
36.059 36.166	1	778.06	[ [	1	1	45.772	1	754.18	1.	<b>[</b> ]	
	1	778.06 777.85				45.772 45.872	3	754.18	<b>'</b>		

a.	ı	v	10-7	lassifica 9-		,	I	•	Classification 9-6		
						<del> </del>					
6346.099 46.235	1d 2	15 753.36 753.03		1	Í	6352.719 52.816	10	15 736.95 736.71		- 1	S32 3
46.332	ž	752.79	1 1	1	- 1	52.879	ĭ	736.55			-32 -
46,450	ī	752.49		1	- 1	52.976	l i	736.31			
46.520	i	752.07		1	1	53.049	3	736,13		ł	
46 882	1	751.42	Ċ	<b>{</b>	1	53,129	5	735.93			R <sub>32</sub> 10
47.000 47.224	4	751_13 750.57	}		R <sub>32</sub> 13	52.192 53.262	1 6	¥35.76 7≅5,60			5,, 5
47.386	2	750.17			- 1	53.406	2	735.25			
47.483	1	719.93				53,575	1	734.83			R <sub>21</sub> 10
47.562	4	749.73		1	R <sub>3</sub> 1%	53.695	4	734.53			18, 10
47.627 47.769	2	749.22		1		53.907 54.017	li.	734, 02 733, 73			
47.864	3	748.98		Ì	T314	54,242	16	743.18			T2:2
47.903	7	748.89	1		S <sub>3</sub> , 7	- 54.601	1	732.29			-3
47. 398	,	748.65			1	54.761	1	731.69			
48, 136	ī	748.31	1		l	54.895	7	731.56			R39
48.267	1	747.98	(			54.965	1	731.39		R <sub>2</sub> 12	
48.366 48.463	3	747.74		!!	S <sub>31</sub> 7	55.027 55.154	8 2	731.23 730.92			S124
				i i	1	1	1	1			
48.578	1	747.21	l	1 1	ŧ	55.242	2 2	730.70			
48.693 48.856	2	746.93 746.52	1	1	1	55.338 55.406	7	730.46	•	e. 7	R319
49.016	i	746.13	1		1	55.467	8	730.14		S <sub>21</sub> 7	1 R39 S314
49.088	4	745.95	1	52,9		55.627	ì	729.75		202	l , , , , , ,
49.174	2	745.73		}	R3212	55.879	1	729.12			
49.314	1	745.39			"	56.C43	2	728.72	i		l
4 1.423	1	745.12	l	(		56.285	1	728.12			ŧ
49.518 49.642	2	744.88	1	•		56.388 56.511	6	727.86			R <sub>SC</sub> 8
		ł	į		1	56,622	١.	727.29		ļ 1	
49.739 49.930	3	744.33	l	1	R, 12	5ú.878	1	725.65	i		1
50.041	3	743.5A	1		1	56.983	1 i	726.39	1		}
50,113	2	743.41	ì		1	57.069	10	726.18	1	]	S <sub>32</sub> 3
50,210	Z	743.17				57.134	١ •	726.0Z	l	[R <sub>3</sub> 8	T <sub>31</sub> 1
50.353	1	742.51 742.60	l	i i		57.203	1	725.85	Ì	l	
50.440	6		1		5,,6	57.264	3	725.70	t .	<b>.</b>	ļ
50.597	1 1	742.21	1		, ,	57.347	1 :	725.49	Į.	R <sub>2</sub> 11	ļ
50.725 50.829	1 1	741.89	1	•		57.429 57.497	7	725,29	1	1	S <sub>31</sub> 3
50.897	4	741,46	}	•	S <sub>31</sub> 6	57.708	1	724,60	1		1
51.053	i	741.08	1	i i	-31 -	57.828	1	724,30	1	R2111	1
51,146	7	740.85	ł	)	T313	57.899	li	724,13	1	1	ì
51,221	4	740.66	1	1	R3212	57.975	10	723.94	1	}	R327
51.337	1	740.37		1	}	58,199	1	723,38	1		-
51.441	2	740.11	Ì	į .		58.282	3	723.18			
51.557 51.661	2	739.83	1	1	1 !	58.355 53.425	1 6	723.00	1		, .
51.784	6	739.57	1	1	R, 11	58,499	li	722.83 722.54	ì	3,16	R317
51.934	3	738.89		1		58.561	10	722.49	1		R, 7
52.162	1	738.33		1		58.691	1	722,17	İ	]	1
52.307	3	737.97		S <sub>21</sub> 8		58,926	9	721.59	1	1	S <sub>32</sub> 2
52.431	1 !	737.66	1		]	59,131	14	721.11	1	1	
52,516 52,574	1 4	737.45	ì	R <sub>2</sub> 13	j i	59.274 59.334	8	720.73	R <sub>1</sub> 13	}	Ru6
26,219	13	131.31	1 '	į.	1.	11 27, 234	1 "	1 120.38	1	i .	SalZ

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<b>k</b>	ı	u	C	lassifica 9-6	tion	λ	1	y	C	lassifica 9-6	tion
6359.442	1	16 220 21		T		(264,000		16.507.70	<del> </del>	I	
	li	15 720.31		į į	1 1	6364.985	4	15 706.62	1		Ω <sub>32</sub> 11
59.518		720.12	l	1	1 1	65,085	2	706.37	1	l	ļ
59.588	3	719.95	į	R <sub>2</sub> 10	1	65.386	] 1	705.63	J	1	3
59.706	1	719.66		i	R <sub>31</sub> 6	65.571	9	705.17	l	•	Q, 11
59.795	8	719.44	1	1	T310	55.648	7	704.99		R <sub>2</sub> 7	Ω,,10
59.871	7	719.25	1	1	R, ú	65.787	2	704.64	}		
59.968	l i	719.01	1	1	1				İ	Q <sub>2</sub> 15	l .
			į.		} }	65.855	1	704.47	j.	j,	1
60.063	5	718.78	ł	R2110	1	65.916	4	704.33	ł	1	ł
60.334	1	718.11	í	<b>i</b>	1 1	65.999	6	704.12	•	1	دوري
60.419	10	717.90	ļ	]	R325	66.117	10	703.83	] .	R217	
60.510	1	717.67	1	1		66.178	,	703.68	1		
60.595	10	717.46	ł		ا دها	66.219	ž	703.58	1	1	
60.692	1 2		t	1	S <sub>12</sub> 1		7		[		Q329
		717.22	ł	1 :	1 1	65.258		703.48	1 .		Quiv
60.792	1	716,97	ł	( )	1 1	66.393	1	703.15	I :		
60.876	3	716.77		!	R315	66.489	4	702.91			Ω124
60.962	7	716.55	l		S <sub>21</sub> 1	66.562	1 1	702.73			
61.029	9	716.39	ŧ	1 :	R, 5	66.620	3	702.59	1 1		~ *
61,159	í	716.07	{		,	66.620		102.59	[		Q <sub>32</sub> 8
			l	1	l !	66.680	.7	702.44	1 1		C <sub>3</sub> 3
61.257	1	715.83	i	1 . 1	i I	66.790	10	702.17	Į į	[0, 9	Q145
61.324	9	715.66		5315	ĺ	66.838	10	702.05		8213	Q327
61.384	8	715.51		i I	R324	66.899	4	701.90			Q126
61.423	2	715.42	i	1 1	Q <sub>3</sub> 15	66,986	l i l	701.68			19320
61.530	3	615.15	l		~3				[ 1		
(1.550			i	[	1	67.058	3	701.51	l 1		
61.620	1	614,93	!		]	67.124	7	701.35	j j		Ω, 4
61.705	5	614,72		17.9		67.198	8	701.16			Q <sub>3</sub> 8
61.823	2	614,43		1	R314	67.276	1	700.97			
61.918	1	614.19	í	( (		67.336	l i l	700.62	i		
62.014	7	613.96	R, 12		R3 4	67.394	10	700.68			٠.
62.085	3	613.78	1 *** ***	l i	,					Ω <sub>2</sub> 14	Ω, 5
62.168	10	613.58	İ	R219	R323	67.435 67.492	10	700.58 700.44	R, 10	R <sub>2</sub> 6	Ω, 7 Q, 6
			<b>i</b> !	""	1				1	l	23 5
62.247	1	613.38		i 1		67.643	1	700.06	i	Ì	
62.336	1	613,16	1	1 1		67.737	1	15 699.03	l i	1	
62,422 !	2	712.95	1	1 1		67.861	3	699.53	i 1		
62.510	1	712.73		í í	1	67.923	9	699.38		Rai6	
62.601	4	712.51			R313	68,102	í	698.94		LATO	
62.661	3	212.26			1	4		•		- 1	
		712.36			Co 14	68,434	1	698.12			
62.754	7	712.13			R322	68.641	1	697.60	Q1217	1	
62.834	9	711.93		i i	R <sub>3</sub> 3	68.799	5	697.21		Q <sub>2</sub> 13	
63.016	ld	711.48				68,951	1	596.84		1	
63.190	Z	711.05		{Q <sub>31</sub> 13	R412	69.096	1	696.48		1	
63.350	1	710.66				69.179	6	695.28		1	
63.521	5	710.24	l i	l !	R, 2		3		Q, 17	R <sub>2</sub> 5	
63,612	3	710.01		1 1	^,, ~	69.239		696.13	li		
	2				1	69,361	1	695.83	1	Ch 13	
63.671		709.86		!		69.433	7	695.65	ŀ	521 2	
63.723	3	709.74		R <sub>2</sub> 8		69.538	1	695.39			
63.758	6	709.65			Q, 13	69.632	10	695.16		R215	
63.871	1	709.37				69.883	3	694.54		v:112	
63,934	2	709.09		i	1	70.003	i		' I	i	
64.064	īl	708.89			- 13			694.25	1		
64,131	6	708, 73		5214	Q <sub>32</sub> 12	70.091 70.187	10	694.03 693.79	R, 9	Q <sub>2</sub> 12	
}	_				~-	}	١ . ١	0,5,17	j	1	
	5	708.56		R218	11	70.262	2	693.61	ļ	l	
64.198	1	708.29			- 1	70,427	1	693.20	l	- 1	
64.311									1		
64.311 64.653	1	707.44			. 11	70.565	1	693 . 86	1	Q,,121	
64.311 64.653 64.735	1 5	707.24		1	Q, 12	70.565	ż		ì	Q <sub>11</sub> 12	ì
64.311 64.653	1		к <sub>1</sub> 11		Q <sub>3</sub> 12			692.65 692.45	Q <sub>12</sub> 16	Q <sub>11</sub> 12 Q <sub>11</sub> 12	

		т		3	- 41	П		<del>,</del>		<del>,</del>		·
λ.	I	<u>, , , , , , , , , , , , , , , , , , , </u>		Cassific 9-6	2110n	Ш	λ	1		9	lavelfic 9-6	ation
6370.79	4 4	15 692.30	1	R2 4		П	6376.153	8	15 679.11		0.5	T
70.94		691.93	l	1	P, 4		76.191	7	679.01	l	Q <sub>2</sub> 5	1
71.05		691.66	I	1	1 1		76.281	li	676.79	Q1113	-23"	į
71.16		691.38	Q: 16	1	1 1	Ш	76.453	li	678.37	1 -41	İ	i .
71.24	7 10	691.18		R <sub>21</sub> 4	Q <sub>2</sub> 11]		76.610	10	677.99	[R110	Q <sub>21</sub> 5	Q <sub>2</sub> 4]
71.34	0 1	690.96	l	1	1 1		76.682	1	677.81		1	Į.
71.42		690.74	ł	ł	1 1	1	76,761	10	677.61	Q <sub>1</sub> 13	1 ~ .	ļ
71.52		690.50	1	ſ	1 1	1	76.847	i	677.40	- 1. 1. J	205	i .
71,62		690.25	I	ł	1 1		76.932	7	677.20	l	ł	P, 9
71.74	2 3	689.97		$\Omega_{21}$ 11	1 1		76.975	5	677.09		Q <sub>2</sub> 3	.,,,
71.84	0 4	689.72	•	Q2311	1 1	1	77.054	5	676.90	1		
71.91	8 10	689.53	j	521	1 1	1	77.153	Ιĩ	676.65	Į	Q <sub>21</sub> 4	!
72.14		688.97	ì	~	1 1	1	77.247	8	676.42	İ	Q, Z	0.41
72.26		688.68	i	1	1 (	1	77.324	2	676,23	1	1 42 -	Q234]
72.33	3 7	688.51		R <sub>2</sub> 3	Q <sub>2</sub> 10]		77.409	8	676.02		Q <sub>21</sub> 3	Q <sub>2</sub> 23
72.42	3   1	688.29	1	1	1 1		77.504	1	675.79		1	
72.51	0   6	688.08	1	l	P, 5	1	77.578	8	675.61	R, 6	ì	
72.58		687.89	ł	1		1	77.647	10	675.44	[Qu3	Q <sub>11</sub> 2	P <sub>3</sub> 10
72.64		687.74	R, 8	Q <sub>12</sub> 15	1 1	1	77.787	2	675.09	1.~	Qui	7, 10
72.74	8 10	687.49		R <sub>21</sub> 3	•		77.869	1	674.89		-4.	
72.81		687.34		Q <sub>11</sub> 10			77.944	,	674.71			
72.90		687.09		Q210	1	1	78.006	9	674.56	Q <sub>12</sub> 12	Q <sub>22</sub> 2	
72.99		686.88			1	1	78.081	1	674.37		1425¢	1
73.06		686.70				1	78.157	7	674.18			P <sub>3</sub> 11
73.150	0 5	686.50	C <sub>3</sub> 25			1	78.266	1	673.92			-,
73.23		686.29					78.386	3	673,62			P, 17
73.310		686.11		Ω <sub>2</sub> y	1 1	ĺ	78.460	10	673.44	Q <sub>1</sub> 12	Q <sub>20</sub> 1	
73.617					1	1	78,532	4	673.26	_	_	P, 12
73.78		685.07		(2 (2119	1	1	78.670 78.775	2 5	672.92 672.66			P <sub>3</sub> 12 P <sub>3</sub> 16
72 00		1		1		1						P <sub>3</sub> 13
73.884	8	684.69	1	D239	P, 6	1	78.833	3	672.52			P, 15
74.083		684.43 684.20	- 1		1	1	78.882	3	672.40			P, 14
74.162		684.01	1	02	Q 8]	ł	79.243 79.350	1 3	671.52			
74.267		683.75		R <sub>21</sub> 2 S <sub>21</sub> 0	143 -31	1	79.475	11	671.25 670.94	1		· I
74.334	1	683.59			ì		79.606	5	670.63	ا ا		}
74.409	3	683.40	- 1	1		1	79.668	2	670.47	Quili	P <sub>2</sub> 2	Ì
74.531		683.10	Qu:4	1		Ì	79.838	ī	670.05			- 1
74.643	4	682.82		Q <sub>11</sub> 8	ì	1	.9.903	i l	669.90	1		1
74.686	3	682.72	İ		l.	Í	79 970	10	669.73	R <sub>1</sub> 5	į	- 1
74.758	5	682.54	1	Ω2,8		ļ	80.034	, [	669.57	- 1	Í	- 1
74.843		682.33	4	~~	- 13	I	80.0E2	10	669.45	Ω, 11	ł	ł
74.936		682.10	ı	Q, 7	- 11	•	80,231	1	669.09	-3 · · · [	1	- 1
74,997		681.95	Q, 14	- 1		ļ.	80.360	9	668.77	- 1	P2	1
75.073	7	681.77	1	R, 1	P <sub>3</sub> 7		80.515	1	668.39	I	P <sub>23</sub> 2 P <sub>2</sub> 3	1
75.138		681.61	R, 7	1	11	Ì	80 628	3	668.11	f	- 1	1
75.246		681.34	- 1	- 1	11	l	80.799	i l	667.69	I	1	I
75.327		681,14	1		- 11		81.052	i	667.07		- 1	1
75.405		680.95		Ω217	11			10	666.73	Qu10	P23	1
75.457	,	£80.82	ł	R <sub>21</sub> 1			81.346	2	666.35	-	P2 4	- !
75.521		680.67	ľ	ດນ7	[ ]		81.503	1	665,97	- [	l	1
75.591		680.49	l	Q, 6	- 11		81.644	9	665.62	0, 10	- 1	i
75.962		679.58	i	1	[ ]		81,717	i	665.44			Ì
76.055		679.35	- 1	Q <sub>21</sub> 6	!!		81.850	1	665.11	I	1	I
76.090	7	679.26	- 1		P, 8		81.983	10	664.79	1	P234	ļ
	اـــــــــــــــــــــــــــــــــــــ	<u></u>			1.1			1	1	1	-	- 1

λ	1		C	lassifica 9-6	tion		1	v	C	sselfication 9-6
	<u> </u>			<del>,</del> ,		<b></b>				
6382.086	4	15 664.53		P <sub>2</sub> 5		6388.146	10	15 649.67	Q <sub>12</sub> 5	1
92.220	1	664.21		- 1	1	88.222	1	649.49		
BZ.318	9	663.97	R <sub>1</sub> 4		1	88.353	ld	649.17		'
82.540	lı	663.42	1			88.526	1	648.74		1
82.696	106	663.04	Ω <sub>12</sub> 9	P25	P2 6}	88.603	10Ъ	648.56	Q, 5	
		1/2 /2			1			4 47 00		1
82.839	1 3	662,69 662,33			1	89.022	1bd Od	647.85 647.53	P <sub>1</sub> 17	1
82.984	l i	662.12	1		1	89.110	8	647.3Z	R <sub>1</sub> I	i !
83.068	10		ا م ا			89.169	7	647.17	~1 .	أعدا
83.143 83.218	1	661.94 661.75	Ω <sub>1</sub> 9			89.293	,	646.36		O <sub>20</sub> 6
		,			1		_			
83.273	5	661.62		P <sub>2</sub> 7	1	89.404	7	646.60	Q <sub>12</sub> 4	P <sub>12</sub> 16}
83.328	9	661.49		Pz 6	l I	89.769	1	645.71		
83.405	1	661.30			,	89.652	10	645.50	Q <sub>1</sub> 4	P <sub>1</sub> 16]
83.473	2	661.13			4	69.941	1 1	645.28		
83.525	7	661.00		O <sub>23</sub> 3		90.168	2	644.72	P <sub>12</sub> 15	
83.642	1	660.72			1	90.633	10	643.58	Q <sub>12</sub> 3	P <sub>1</sub> 15]
83.727	5	660,51	1	P, 8		90.763	l i	643.25		1
83.796	l i	660.34		P. 15		90.877	10	642.98	P <sub>12</sub> 14	0207
83,858	10	660.16		Pp7	}	90.983	2	642.73		
83.982	i	659.88		-5.	Ì	91.062	105	642.53	Ω <sub>ε</sub> 3	l
-							١. ا	.,		
84.071	6	659.66	l i	P <sub>2</sub> 9		91.136	1	642.35		1 1
84.112	5	659.57	Ω <sub>12</sub> 8			91.203	1	642.19		1 1
84.191	2	659.37				91.259	4	642.05	R <sub>1</sub> O	l (
84.252	1	659.22				91.326	3	641.89	P <sub>1</sub> 14	1 1
84.312	9	659.67		Pn8	P <sub>2</sub> 10]	91.434	5	641.62	P <sub>13</sub> 13	
84.394	4	658.87		P <sub>2</sub> 13	l	91.634	1	641.13		1 1
84.457	7	658,72	(P <sub>3</sub> 11	F, 12	1	91.734	i	640.89		
84.513	i	658.58			1	91.822	6	640.48	Ω <sub>13</sub> 2	1 1
84. 82	10	658.41	Ω, 8		1	91.920	6	640.44	P <sub>1</sub> 13	ĺí
847		658.25	R <sub>2</sub> 3	P239		91.961	4	640.34	P <sub>13</sub> 12	
				1 1	1			/		
84.7 \$	2	657.94		P2:15		92.141	1.3	639.89		1 1
84,886	6	657.66	1	Palo		92.233	10	639.67	Ω <sub>2</sub> 2	1 1
84.957	4	657.49		Pn13		92.313	1	639.48	i	l ;
85.023	7	657.33		Pnll	Pp12]	92.371	9	639.34 639.27	۱	
85.160	1	656.99				92.721	7	039.21	P <sub>13</sub> 11	P <sub>1</sub> 1:
85.312	1	656.62			1	92.486	7	639.05	<b>l</b> '	0236
85.415	1	656.37			1	92.675	1	638.59		- 1
85.497	10	656.16	Q <sub>12</sub> 7	O <sub>23</sub> 4		92.749	1	638.41		1 1
65.643	1	655,81		[	l l	92.815	7	638.35	Pu210	[ [
85.811	1	655.40				92.904	8	638.03	P <sub>1</sub> 11	1 1
85.906	1	655.17				92.985	7	637.84	Ω <sub>12</sub> 1	Pp11
85.770	105	655.01	Q <sub>1</sub> 7		1	93.037	i	637.65	-13.	
86.213	1	654.41	~, ·	1	1	93.108	li	637.53	1	1 .1
86.537	1	653.62				93.152	10	637.43	P.29	1
86.684	2	653.26				93.212	2	637.28		!!
					1		1	}	ł	1 1
85,773	6	653.04	امدا			93.253	1 7	637.17		[ ]
86.846	7	652.86	D <sub>12</sub> 6		1	93.295	10	637.07	P <sub>1</sub> 10	<b>!</b>
86.895		652,74	R <sub>1</sub> 2	1	1	93.359		636.92	C <sub>1</sub> 1	1 2 10
87.014 87.174	3	652,45 552.05	l		1	93,428	9	636.75 \$36.58	P <sub>12</sub> 8	Pp10
			į į	[	[ [	ł	٠,		į	! :
87.232	1	651.91				93.551	Z	636.45	1	
87.307	10	651.73	Ω, 6			93.595	1.1	636.34	1	1
	10	651,57	1	O <sub>20</sub> 5	i j	93.624	10	636.27	P1 9	1 1
87.370										
87,566	ld	650,19			1	93.669	10	636.15 636.01	P <sub>13</sub> 7	1

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6393.787 93.846 93.907	1 10 8	15 635.87 635.72 635.58	P <sub>12</sub> 6 P <sub>1</sub> 8	7-0		6402.329 02.432 02.538	10 1 6	15 615.01 614.76 614.50	O <sub>22</sub> 7 N <sub>15</sub> 4			•
93.994 94.058	10b 1	635.36 635.20	P <sub>12</sub> 5	O239	P158]	02.677 02.838 02.920	1 1 6	614.16 613.77 613.57				
94.111 94.192 94.254 94.302 94.394	10 10 10 6	635.08 634.88 634.72 634.61 634.39	P <sub>12</sub> 4 P <sub>12</sub> 3 P <sub>12</sub> 2 P <sub>1</sub> 6 Q <sub>1</sub> 0	P <sub>1</sub> 7] P <sub>13</sub> 7] P <sub>12</sub> 1]		03.088 03.209 03.393 03.641	1 6 1	613.16 612.86 612.42 611.81	0 <sub>11</sub> 8			
94,450 94,505 94,553	10 1 8	634.25 634.11 634.00	P <sub>1</sub> 5	P <sub>13</sub> 6]		03.799 03.978 04.047	4 1 10	611.43 610.99 610.82	O <sub>18</sub> 8 O <sub>12</sub> 9			
94.617 94.662 94.738	10 10 0	633.84 633.73 633.55	P <sub>1</sub> 3 P <sub>1</sub> 2	P <sub>1</sub> 0] P <sub>1</sub> 1	P <sub>13</sub> 5]	04.112 04.348	l ld ld	610.66 610.09 609.62				
94.883 95.097 95.265 95.400	0 1 2 5	633.19 632.67 632.25 631.93	P <sub>13</sub> 4 P <sub>13</sub> 3	O210		04.640 04.740 04.832 05.005	8 1 6	609.38 609.13 608.91 608.48	O <sub>13</sub> 9 O <sub>12</sub> 10	N <sub>13</sub> 5]		
96.328 96.601 96.706 97.009 97.190	10 1 7 1 1	629.66 628.99 628.74 627.99 627.56	O <sub>13</sub> 1	O <sub>2</sub> 11		05.231 05.419 05.499 05.560 05.698	1 2 1 8	607.94 607.48 607.28 607.13 606.80	O <sub>2</sub> 10			9,
97.398 97.620 97.809 97.905	9 1 1	627.05 626.50 626.04 625.81	O <sub>13</sub> 2	O <sub>12</sub> 1]		06.060 06.139 06.229 06.362	1 2 4 1 2	605.92 605.72 605.50 605.18	O <sub>13</sub> 11 O <sub>12</sub> 12			
98.169 98.262 98.354 98.445 98.631	1 1 3 10	625.44 625.16 624.94 624.71 624.49 624.03	O <sub>13</sub> 2 N <sub>13</sub> 2 O <sub>12</sub> 3			06.615 06.736 06.835 07.113 07.355 07.457	4 5 1 2bd	604.56 604.27 604.03 603.35 602.76 602.51	N <sub>13</sub> 6 O <sub>12</sub> 13 O <sub>12</sub> 13 O <sub>12</sub> 14	O <sub>23</sub> 12	S <sub>20</sub> 13	
98.739 98.878 99.002 99.067 99.123	1 5 1 6	623.77 623.43 623.13 622.97 622.83	O <sub>13</sub> 3	O <sub>23</sub> 13		07.841 08.024 08.566 08.679 08.800	3 1 4 1 7	601.58 601.13 15 599.81 599.54 599.24	O <sub>12</sub> 15			5,,
99.325 99.462 99.579 6400.101 00.342	1 9 1 5 1	622.35 622.01 621.72 620.44 619.86	O <sub>11</sub> 14 - O <sub>12</sub> 14 -			- 08.974 09.237 09.326 09.507 09.617	1 1 2 1	508.82 5 8.18 5 7.96 1 7.52 7.25	7 Ти			T <sub>N</sub>
00.448 00.720 00.851 01.068 01.227	10 1 2 7 1	619.60 618.93 618.62 618.09 617.70	O <sub>12</sub> 5	: <sub>Nu3</sub> ] Оы15		09.725 09.963 10.241 10.595 10.830	1 2 1 1 3	55 99 596. 595.74 594.88 594.30	N <sub>13</sub> 6			
01.407 01.597 01.777 02.311 02.165	9 1 2 5	617.26 616.90 616.36 615.79 615.41	O <sub>12</sub> 6			10.946 1:.062 11.146 11.351 11.652	1 2 1 1	594.02 593.74 593.54 593.04			S <sub>23</sub> 12	

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λ	1	v	9-6	lassifica 8-5		1	1	,	,C)	assific 8-5	lon
6411.782	2	15 591.99			823 10	6423.895		15 562.59			T313
12.265	14	590.81			B <sub>34</sub> 10	23.997	6	562.34		1 1	Rall
12:516	1	590,20			-	24,206	1	561.83			*****
12.651	2	589.88				24.397	2	361.37	[1	1 1	
12.834	4	589.43	N <sub>23</sub> 9		1	24.596	7	560,92	1	1 1	R, 11
				}	1					•	,
13.077	1	558.84			1	24.864	1.	560,24			١.
13.202	2 .	588.53	1		T2,5	24.959	4	560,01	į į	5,0	
13,618	1	587.52				25.020	3	559.86			l
13.882	1	586.88		1	1	25.101	1	559.67	•	1 1	
14.091	1	586.38		1		25.207	1	559.41	ļ i	1 1	
					l j		1	1		1 1	
14.191	2	386.13				25.297	4	559.19	(	Rg 13	
14,475	1	385, 44			,	25.442	1	558,84	1	.	
14.607	1	585.12				25.630	10	558.39		1	873.5
14.691	3	564.92		8111		25,799	35	557.98	1	Ra13	
14.776	2	584.71	Nulo			25.975	4	557.55			Rail
14.830	5	584.56		1	1		_			1	
	li	584.11	!		532 9	26.092	7	357,27	R <sub>2</sub> 15	] [	833 5
15,025	2	583.64			1	26.359	1	556.52	<b>i</b> '		
15.217 15.335	1	583.35				25.674	0	356.34		1	R <sub>24</sub> 10
16,011	3	581.71	1		S11,9	26.555	6	536.18	1	1 1	R <sub>3</sub> 10
10.011	•				1	26.697	à	555.00	1	1 1	
16.139	1	581.40		1	1	24.960	2	555.17	ļ i	1 1	
16.239	i	531.16		1	1	27.597	7	254.84	1	1 1	
16.319	2	580.95	1			27.214	1			1 1	TziZ
16.442	ī	580.66			1	27,537	154	354.55	1	ا. ا	
16.690	ž	580.06	W2213		1	27.720	2	553,72 553,33		1	
,,	Τ,				1	ł	•	. 337,33	1	1 1	
16.838	1	579.70			1	27.798	•	553.14		Rg 12	Rus
16.935	5	579.47			Tag 5	27.917	á	552.85		~3	8384
17,152	14	570.94		1		24.058	á	552.51	1		-38 a
17.768	4	577.45			S <sub>32</sub> 8	28.171	9	552.24		817	
17.056	1	377.24			No 14	29,302	3	551.92	1	R <sub>81</sub> 12	Raty
	i :		[								31,
17.982	14	576.93				28,364	10	551.72		[6 <sub>21.4</sub>	34 9
18,231	. 3	576.32		52110	823 0	38,531	8	551.36		! " "	
18.542	0	575.57	Null			25.631	2	551,12	į /	1	
19.651	2	572.8A			R <sub>20</sub> 13	23.908	14	550,45	l i	! .	
19.758	2	572.62			1	29.047	2	\$50,12		1 1	
19.969	1	573.12		Rg 15	i	30.30					
20.060	i	571.84		141.3	1	29.130	2	549.92	2, 14		
20.231	4	571.47		1	R, 13	29,325	2	549.44	1		
20.333	3	571.22	N <sub>13</sub> 13			29.471 24.749	i	349.09	1		Res 8
20.467	ž	570.90	-13.5	Rails	Tare	29.881	i	548,43 563,10	1	1	
	-				-44"	1 -7.00	•			]	1
20,543	9	570.71	!		£ .	â9.764	i	\$47.90	i	1	R410
30.670	i	570.41			~	30.034	16	847, 73	1	1 1	634 7
20.016	1	370.05			1	30,100	10	647.97	1	[To1]	R. s
21.022	3 .	369.55			821 7	30.229	7	847.26	1	Ball	
21.255	3	\$68,99	[	1 1		30,404	1	846,83	[	"" "	
	١.			اما		1			1		
21.639	5	564.05		511 ?		30,480	9	\$48,65	(	(	811 3
21.903	3	367.42			Pull	30.720	6	. \$46,07		Rull	"
22,477	3	666.02	[		No 13	30,909	1	845,61	į i	[ ~	_
22,569 22,704	li	355.80		أمريوا	i l	30.985	10	\$45.43	1	[ ]	R <sub>20</sub> 7
24,104	١ ٠	563.47		R <sub>2</sub> 14		31.150	1	543.03	1		-
22.968	15d	564,84			1	1 ,,,,,	*	1 444 44	i '	ا ۽ ۽ ا	
23,085	li	564.55		t i		21.219	7 2	544.72	1	S21 6	
25,169	à	564.35	1 1		By 4	31.535	10	844.15	i '		12/17
23,356	lī	563.69			~~ ¦	31,703	10	543.68 543.69		j	R <sub>3</sub> 7
								. 343.07			
23,646	3	363.19		1	823 6	31.770	1	543.53	1		H73 * 1

λ	I	v	CI	assificat 8-5	tion	λ	1	ν.	; с	lassifica 8-5	tion
4.00						(122.222			1		<del></del>
6431.885	1	15 543.26	l i	1	!	6437,290	8	15 530.20		Ra18	
31.961	10	543.07			S,12	37.445	1 1	529.83			$Q_{32}12$
32.011	2	542.95			- 1	37.533	2	529.62	1	· · · · · · · · · · · · · · · · · · ·	
32.099	5	542,74	R <sub>1</sub> 13	! }	i	37.697	l i	529.22	i 1	1	
32,333	9	542.17		1 1	R <sub>32</sub> 6	37.818	8	528,93	R, 11	Ī	
36,333	,	300.21		i s	V350	31.010	וייו	320,73	101	1	
22 200	8	643.04		i 1	1	27 001		E70 71	•	• }	
32.389		542.04			5, 2	37.903	I	528.73	t t		·
32.463	1	541.86	i !	[ [		38.019	7	528.45	!!	1	Q <sub>3</sub> 12
32,530	4 '	541.70		R <sub>2</sub> 10	- (	38.097	1	528,26		1	
32.793	2	541.06	1	"	R316	38.173	4	528,08	!!	l	
32.865	9	540.89	1	1 1	T,10	38.293	5	527.79		. <b>i</b>	Q <sub>32</sub> 1
		1	1	1	-31.					ĺ	~~**
32,945	9	540.69	]	1	R, 6	38 453	1	527.40	1 1	į	
33,014	5	540.53	1	أمدحا	7.3	38,568	l i	527.12	1		
			1 .	R <sub>22</sub> 10	- 1				: :		
33,136	1	540.23		1 1		38.789	9	526.59	1 1	R <sub>3</sub> 7	
33.222 (	2	540.02	1		0, 16	38.879	10	526.37			$Q_1$ 1
33.329	1	539.77	ł . !	i 1	1	39.002	1 4	526.07	! }	. ,	Qui
- 1		l i		!!	- 1		1	<b>!</b>	1 1	Į į	
33,441	1	539.50		1	1	39.089	2	525.87	{	Q <sub>2</sub> 15	
33,515	10	539.32	1	1 }	R125	39,170	1 5	525.67	1		
33.614	ì		1	i l	*****	39.270	10	525.43	1 1	p 7	0.3
		539.08	j l	l í	!				1	R <sub>21</sub> 7	Q323
33.693	10	538.89			S <sub>32</sub> 1	39.426	1	525.05		!	
33.766	1	538.71	1	]		39.576	94	524.69		[0, 10	Ω329
ł		1	1	1 1	- 1	1	1	1	) }	1	
33.848	1	538.51	•	1 , 1	F	39.669	1	524.47		1	
33.929	4	538.32	1.		i	39.748	1	524.28	) )	1	
	4			1 1	1	-39.815	. 5	524.11	1 1		~ 4
33.991		538.17		J' · i	R315						O324
34.068	9	537.98		1 1	S <sub>31</sub> 1	39.907	1	523.89	ا ا		
34.138	10	537.81	1	1 1	R, 5	39.984	106	523.71	[C <sub>31</sub> 8	S <sub>21</sub> 3	Q, 3
ì	. '	1		1 1	1	}	1	1 . •			•
34.210	. 1	537.64	[ . :	1 1	- 1	40.063	1	523,52	l i		
34.282	10.	537.47	i.	S <sub>21</sub> 5	- 1	40.146	1100	523.32	[0,15	[Q127	Ω, 9
34,437	1	. 537.09	1	1 -41 - 1		40,236	5	523.10	130-	6-40	Q116
			1	1 1	- 4	40.311	lí	522.92	, ,		HAT
34.510	10	536.91	1	1 1	R324				1 !	1	1
34.620	5	536.65		1 1	C <sup>3</sup> 15	40,383	2	522.75	{		
	_			ا <sub>-</sub> ا	- 1	1	١.		!!		
34.720	7	536.41	1 .	R <sub>2</sub> 9	1	40.462	9	522.56	1 1		Q <sub>3</sub> 4
34.799	1	536.22	1 1	1 - 1	- 1	40.554	10	522.33	R, 10		Q <sub>3</sub> 8
34.898	i	535.98	)	) j	1	40.660	16	522.08	1 ' 1	R <sub>2</sub> 6	
34.989	5	535.76	R, 12	1 1	R314	40.739	10	521.89	1 1		Ω, 5
			1 ***	1 1	70312	40.787	lio	521.77	1 1		
35.085	1	535.53	} '	1 1	1	1 70.101	1.0	341.11	1		Ω, 7
25 .57	9	535.35	ł ·	j 1	D 4	10 021	1,0	\$ 52. 4.	) i		٠ ۾ ا
35.157			I	ا ا	R, 4	40.856	10	521.61			വ, 6
35.210	9	535.22	1	R <sub>21</sub> 9		40.947	1	521.39	, ,		l
35.319	10	534, 96	Į	[Q <sub>32</sub> 14]	R323	41.031	[ 1	521.18	1		I
35, 393	1	534.78	1	i ~ ]		41.133	110	520.94	j 1	R416	I
35.492	i	534.54	1	1 1	1	41'.332	li	520.46	1 1	7.41	
	1		1	1 1	. }		1	1	1 1	1	Ì
35.615	14	534.25	1	1 1	1	41.618	1 1	519.77	1 1		ŀ
			1	!!	!		•		]		1
35.772	6	533.87	ì	1 1	R <sub>31</sub> 3	41.913	1.1	519.06	!!		1
35.879	4	533.61	1	1 1	O <sub>3</sub> 14	42.037	į 1	518.76			Į.
35.937	8	533,47	1	1 1	R322	42.130	7	518.54	1 1	Q <sub>2</sub> 13	ì
36.015	10	533.28	1	1 1	R, 3	42.432	9	517.81	)	R 5	l .
		1	1	1 1	1	1	1 '	}	1 1	J.,	Į .
36.202	:bd	532.83	í	i I		42.513	5	517.61	1 1		f
36.347	i	532.48	ì	1 1	P.m2	42.605	ĺž	517.39	1 1	0 13	}
	l ż		ł	(· )					l 1	Q <sub>11</sub> 13	١.,
36, 449		532.23	į.	l i	Q3213	42.675	9	517.22	!!	842	O <sub>23</sub> !
36.530	1	532.04	l	{		42.815	1	516.89	. !		l
36.719	6	531.58	ł	1 1	R, 2	42.896	10	516.63	1	R <sub>21</sub> 5	ı
	ł	I	ŧ	t i		1	ŧ	l	į l	••	l
36.805	5	531.37	i	R28	1	43.065	1 2	516.28	1 1		I
36.913	1	531.11	}	1 * 1	1	43,168	li	516.04	) :		i
	7	530.84	1	, 1	Q <sub>3</sub> 13				1 1		1
		. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1 4	1×3 + ⊃(	43.260	10	515.81	R <sub>1</sub> 9	1	ł
37.026	i '		1	5 1		40 07.					
	a	530.63 530.44	1	S <sub>21</sub> 4	i	43,361	1 6	515.57 515.37		Q <sub>3</sub> 12	į

λ	1	v	-	lassifica 8-5	tion .	λ	1		C	lassific 8-5	ation
6443.676	1	15 514.81		<u> </u>	<u> </u>	6449.704	8	15 500 11	0 11	26	Γ
43.762	li	514.61	ł	1	ł	49.768	1 7	15 500.31 500.16	Q <sub>12</sub> 13	Ø296.	١
43.857	li	514.38	i	i	İ	49.841	li	15 499.98	1 1		P, °
43.937	Ż	514.18	ł	0. 12	ł	49.910	li		1 1		l
44.026	3	513.97	ł	Q <sub>3</sub> ,12	· .	49.981	li	499.82	1		Į
44.020	1	313.7	l	Ω2312	l	37.701	١.	499.65	1 1		<u> </u>
44.094	5	513.81	1	R <sub>2</sub> 4	•	50.056	1	499.47	1 1		•
44.317	1100	513.27	ł	}	}	50,121	10	499.31	[R <sub>H</sub> 0	2.4	Q215
44.446	2	512.96	i	[	P, 4	50,219	9	499.07	Q, 13	•	•
44.566	10	512.67	į	R214	1	50,280	10	498.93	'	Q235	Į.
41,652	10	512.46	l	Q <sub>2</sub> 11	l	50.336	2	498.79		_	1
44,931	1		i	1	ļ						l
	li	511.79	l	Į į		50,421	1	498.59	i I		Ī
45,038 45,157	5	511.53	l			50,494	7 8	498.41		Q <sub>2</sub> 3	1
		511.25	ł	Q2111		50.584	9	498.20		Q <sub>21</sub> 4	l
45,248	11	511.03	l .	S <sub>21</sub> 1	Quil			498.03	! !		P, 9
45, 409	' '	510.64	ł	1		50.713	1	497.89	1	ľ	
45.544	1	510.32	ł	į į	-	50,778	10	497.73		Q <sub>2</sub> 2	04
45,675	1 7	510.00	]	R <sub>2</sub> 3		50.853	i	497.55	}	<b>~</b> €	Ω234
45,758	8	509.80	1	Ω, 10		50.897	li	497.45	1		l
45,823	ī	309.64	1			50.933	10	497.36	1	Q <sub>2</sub> 1	031
45,887	9	509.49	R, 8	1		50.974	10	497.26	R <sub>1</sub> 6	-4 ·	Q <sub>21</sub> 3]
	1		] `						1		
45,967	1	509.30		1		51.040	1	497.10	ł		
46.048	7	509.10	Q <sub>12</sub> 15		P <sub>3</sub> 5	51.112	1	496.93			
46.110	10	508.96		R <sub>21</sub> 3		51.187	10	496.75		Q <sub>21</sub> 2	Q233
46.178	2	508.79				51.259	2	496.58			
46,249	4	508.62		Q2110		51.320	4	496.43		Q <sub>11</sub> 1	
46,338	4	508.41		Q <sub>23</sub> 10		51.371	6	496.31	ı		B 10
46.467	1	508.10		23,10		51.463	3	496.09	Q1212		P, 10
46.523	6	507.96	Ω, 15	1		51.554	10	495.87	C)11.2	0.2	
46.658	l ĭ	507.64	~,	1		51.694		495.53	i	Carc	
46.743	10	507.43		Ω, 9		51.830	3	495.20			
						1					
47.071	1	506.64				51.926	9	494.97		1	P, 11
47,146	3	505.46		R <sub>2</sub> 2		51.962	8	494.89	Ω, 12	1	
47.237	7	506.24		C219		52.026	16	494.73		Qui	
47.338	8	506.00		Qu9		52.099	1	494.56	1		
47.475	6	505.67			₽, 6	52.169	1	494.39		- 1	
47.562	9	505.46		R212		52,235	2	494.23	- 1	1	
47,629	7	505.30		Q <sub>2</sub> 8		52.331	4	494.00	1	1	n 12
47.679	6	202.18		51.0		52.417	i l	493.79		i	P, 12
47,921	2	504.60	Ω1214	.71	i	52.516	il	493.56	1	- 1	
48,028	1	504.34				52.591	6	493.38	1		P, 13
- 1					- 1	1 1	1		1	ł	.,
48,119	5	504:12		Ω218	ĺ	52,691	5	492.14	i		P, 14
48,235	6	503.84		Q238		52.99!	1	492.42	1		-,
48, 326	1	503.63		1	1	53.139	5	492.06	أالتونا	P. 2	
48,406	10	503.43	Ω <sub>1</sub> 14 R <sub>1</sub> 7	Q, 7	!	53.275	id	491.74	j	•	
48.459	10	503.30	R <sub>1</sub> 7	1	]	53,368	3	491.51	1	J	
48.529	2	603 14			1	1			1	ı	
48,706	10	503.14 502.71		R <sub>2</sub> 1	P, 7	53.440	10	491.34	R <sub>3</sub> 5	ì	
48, 830	'i l	502.41			-, ,	53.533	10	491,121	٠١	ĺ	
48,903	10	502.24		ا ۱۰۰۰	Ω217]	53,872	"	490.89	Q, 11	i	
49.008	9.	501.99	i	Rail Qu7	HT. 1		10	490.30	ł	ا د.و	
1		//		~2.	1	//-	~ {	4,0.01	ŀ	P2,2	
49.078	8	501.82		Qx 6	1	54.158	2	489.62	- 1	P2 3	+
49.196	. 1	501.53	1	ł		54.256	1	489.38	ì	•	
49.396	lhd	501.05		1	1	54,373	4	489.10	}	j.	
49.564	8	500.65		Q <sub>21</sub> 6	i	54.456	2	488.90	1	i	
49,653	9	500.44	i	Ω, 5	į	54.537	1 [	488.71	1	1	
						<u> </u>	1		1	1	

Γ	λ	1	,	CL	8-5	lon	λ	1	v	- Cı	as dification 8-5	m,
<b>!</b>	454.613	1	15 498,52	1			6459,670	1	15 454 15	1	T 1	
۰ ا		2	488.34		- 1			10ъ	15 476.40	Q, 7	1	
1	54.689				1	1	59.836	Z	476.00	1 1	1	
1	54.743	.4	488.21	Q1210		- 1	60.059	1	475,77	1 1	1	
Ì	54.856	100	487.94	i	P <sub>23</sub> 3	j	60.450	3	474,53	1		
ı	55.042	2ъ	487.49	i I	P, 4	1	60.577	10	474.23	Q <sub>12</sub> 6	R <sub>1</sub> 2]	
l			407.70	1	1	l	1 40.00	1.			} }	
ł	55.131	1.1	487.25				60.664	1	474.02	P1219	1	
Ì	55.231	10	487.04	Q1 10			60.845	Id	473.58			
į	55.340	5	486.78	1		- 1	60.967	1.1	473.29	1 1	1	
•	55.536	2	486.31	ĺ			61.044		473,11	Q <sub>1</sub> 6	1	
١.	55.598	1	486.16	1			61.158	1	472.83		1	
T	55.686	10	485.95	1		i	61.220	1	473.60		1	
1	55.801	5	485.67	1	P <sub>2</sub> 4 P <sub>1</sub> 5	. }	61.274	10	472.69 472.56		1 !	
ł	55.862	9	485.53	5 4	23.0		61.402	i	472.25		O <sub>23</sub> 5	
1	55.984	3	485,23	R <sub>1</sub> 4			61.518	2	471.97	1 1	1 1	
1	56.202	i	484.71	1	- 1	1	61.661	l î	471.63		1	
]	30.202	1 1	4013.11	1			1 01.001	1.	4,1,03	P <sub>13</sub> 18	1 1	
1	56,284	8	484.51	Q129	1		61.902	10	471.05	Q <sub>12</sub> 5	i 1	
1	56.358	ĭ	484.34	~44'	ì		62.163	3	470.43	~13-	1	
1	56.432	10ъ	484.16	1	P215		62.226	li	470.28		1 1	
1	56, 492	2	484.02	)	F, 6		62.296	1 2	470.11	1	1 1	
ł	56.593	ī	483.77	1 1		ì	62,370		469.93	Q, 5	1 1	
1				1		1		1	1	7, -	1 1	
1	56.689	2	483.54				62,584	1	469.42	Pu17	1 1	
i	56.769	10	453.35	Ω, 9			62.727	l i	469.08	- 14.	1 1	
ì	56.898	2	483.04	1		l	62,823	2	468.85	1	1 1	
ı	57.061	9	482.65	!!	P <sub>2</sub> 7	1	62,883	10	468.70	R, 1	1 1	
1	57.104	10	482.55		P216	1	62,992	1	468.44		1 1	
1					_	1	1	1	1		1 1	
ı	57.188	1	482.35			1	63.083	2	468,23	P. 17	1	
1	57.282	9	482.12		O <sub>23</sub> 3	1	63.143	19	468.08	'	0256	
i	57.411	1	481.81	1 1			63,200	8	467.95	Q <sub>12</sub> 4	ļ —	
l	57.482	2	481.64	i 1			63.326	1	467.64		il	
1	57.535	5	481.52	1	P2 8		63,421	Z	467 42	P <sub>12</sub> 16	1 1	
1		. 1	400.00	1 1			/	١.	1		1 1	
1	57.594	2	481.37	1 1			63.528		467.16		1 1	
1	57.665	10	481.20	ا ـ ـ ا	Pa <sub>3</sub> 7	•	63,654	10	466.86	Ω, 4	1 1	
ł	77,758	7	480.98	Ω <sub>LZ</sub> 8		i i	63.920	2	466.22	P <sub>1</sub> 16	1 1	
1	57.824	2	480. 82				64.042	1 1	465.93	i i	i i	
1	57.905	8	480.63	1 1	P <sub>2</sub> 9		64.174	3	465.61	Pu15	1 1	
1	£7 00£	١. ١	450.43	1	-		64 365	1	465 16		1 1	
1	57.995 58.077	1	480.41 480.22		P <sub>2</sub> 15		64.365	10	465.16 464.93	10.	1 1	
1	58.077	94	480.06	P. 10		1	64.534	11	464.75	Q <sub>LE</sub> 3	1	
1	58,745	10	479.81	Q, 3	P2 14	R, 3]	64.607	li	464.58	i	1 1	
1	58,313	7	479.65	- ·	P. 11	P, 13	64,677	5	464.41	P. 15	1 1	
1	2000.0	'			• * • •	-3.47	1	1	1	1.1.2	1 1	
1	58,397	2	479.45	1	P2 12		64.772	2	464.18	1	1 1	
1	58.496	10	479.21	1	P239	1	64,829	2	464.05	P <sub>12</sub> 14	}	
1	58,583	1	479.00			1	64.907		463.86	Q, 3	Op.7	
1	58,686	3	478.76	1			64.982	1	463.68	1 -, -		
1	58.757	8	478.59	1	Pn10		65.106	5	463.39	R, O	1 1	
1			1	1	~			1	}	1	1 1	
1	58.819	1	478.44				65,183	1	463.20	1	1 1	
i	58.892	9b	478.26	1	Pull	P2:13)	65,262	2	463.01	ı	1 1	
1	58.942	4	478,14	1	P2312		65.353	1 4	462.80	P. 14	1 1	
1	59.040	1	477.91	{		. (	65.451	6	462.56	P1113	1 1	
1	59.112	] ]	477.74	ļ l			65,543	1	462.34	ł		
1	£0 100	10		-		1	Le Los	7	142 0	١	1 1	
1	59.189	10	477,55	Ωμ7	ا م م ا		65.682 65.817	1 2	462.01	Q <sub>12</sub> Z	1 1	
1	59.317 59.456	2	477.24	1	O <sub>23</sub> 4		65.887	lî	461.69 461.52	i	1 1	
1		3	476.72	1	·		65.953	1 8		10 12	1	
1	59.538 59.601	2	476.56	}		/	66.036		461.36	P <sub>12</sub> 12	P <sub>2</sub> 13	
			7,44.50		1	. ,			1 401.10	P <sub>13</sub> 13	: [	

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1	81.709	3	423.78			1	1	91.	662	8	,,,,,,		j	Į	1
1	81.806	i	423.55	i 1			1	91.		ľi	400.15 15 399.72	1.		I	T31 5
1	81.898	5	423.32	! !		•	1	92.		264	15 399.12	1	l	R <sub>2</sub> 14	
1	81.983	3	423.12	0,,14	0.13	2	1	92.		1		l	!	i	R3214
1	82.165	3	422.69	-22	-13	1	1 1	92.		8	398.64 398.07			I	
1		1				ł		1	1	٠	370.01	i	1	1	S <sub>12</sub> 8
1	82.432	1	422.06			•		92.0	562	3	397.76	l	ł	1	Rc 14
1	82.488	4	421.92	0,,15		Ŧ		92.	726	2	397.61		l	1	105 10
1	82.601	3	421.65			1	1 1	92.0		3	397.26	i		5,10	1 :
1	82.705	9	421.41	•		•	1 1	92.9		2	397.06	ł		77.0	1
1	82.778	1	421,23	I		l	1 1	93.0	034	2	396.87	1 .		l	5, 5
1	82.863	2	421.03				1 1		[	,				1	7
ı	82.929	3	420.88	۸ ، د		Č	: 1	93.7		6	396.38	1		1	1
I	83.014	4	420.67	0,16	i	ì	اد يا	93.		1	395,72	N1312		1 1	
	83.177	: I	420.28	ŧ	- 1	1	S <sub>12</sub> 11	93.6		1	395.37	1 1	_	1	1 1
1	83.257	i	420.09	I			1 1	94.4		2 5	393.51	1 1	[R <sub>1</sub> 17	1	
1		- i	20.07	1		ŧ	1 1	77.5	""	"	393.34			Į į	R <sub>32</sub> 13
1	83.329	7	419.92	N <sub>13</sub> 7	0117		1 1	94.7	163	3	392.77				
1	83.457	4	419.62	- 1	- 1	1	l i	95.1		8	391.94			R <sub>2</sub> 15	
l	83.524	1	419.46	•	- 1		S <sub>31</sub> 1 1	95.2		ĭ	391.74	] ]		]	R, 13
1	83.642	1	419.18	Onis	1	l	1 7	95.2		ż	391.59			ا., وا	l i
1	83.752	8	418.92			ı	T317	95.3		7	391.39			R <sub>11</sub> 15	7314
Ì	03 043	. 1	1	1		l		1	_ 1						.31.
i	83.942 84,073	1	418.46	i		ļ	R3217	95.4		10	391.25	N <sub>13</sub> 13			S <sub>13</sub> 7
1	84.306	1 2	418.15	- 1	ł		ı i	95.4		2	391.04			l i	~23.
1	84.460	2	417.60	- 1			1	95.6		1	390.56			!	
1	84.540	2	417.23	- 1	1		ال. وا	95.7		3	390.38				
1	-1.340	-	341.03	ı			R, 17	95.8	78	5	390.08				S <sub>31</sub> 7
	84.746	3	416,55	- 1	1			95.9	87 I	4	300 07			1 1	1
1	84.811	7	416.40					96.2		4	389.87 389.29	1			
1	85.460	4	414.85	Nus	7	S <sub>21</sub> 12	1	96.4		9	388.88	ı j			I
1	85.542	2	414.66	-	1			96.6		ź	388.32	1		S <sub>EE</sub> 9	
1	85.657	3	414.39	1	1			94.7		2	388.76	. !	-		1
1	05 000	. [		1				l		- 1		į		[ 1	
1	85.800	4 2	414.05					96.8		4	387.87	Į		; ł	R,12
1	85.932 86.220	i	413.73		í	i l		97.3		2	386.57	Į			~~7
	86.327	3 1	413.05	1			[. ]	97.4		5	386.45	į	- 1	i [	R, 12
		i l	411.62	1		5,,10	S,2 1 q	97.5		2	386.11	}		R <sub>2</sub> 14	•
1	86,820							97.7	44 !	2	385,66		R, 16		

\*N I Une 6482.76 #N I line 6484.88

λ	ı	v	CL	sssifica 7-4	tion	·	λ	1	v	С	lassific 7-4	a+loss
	-		<del> </del>	<del></del>	<del></del>	j-		_		<del> </del>	<del>-</del>	-
6497.928	5	15 385.28	i	l	1 1	ł	6506.306	1	15 365.47	l	- 1	į
98.047	2	385.00	į	ł		i	06.379	9	365.29	1	8216	ì
98.124	10	384.81	ł		S <sub>32</sub> 6	ı	06,725	3	364.48	Ì	•	R <sub>24</sub> 7
98.247	1	384.52	I	i		1	06.782	2	364.34	<u> </u>	1	
98.611	5	383.66	1	ĺ	S <sub>32</sub> 6	1	06.853	10	314.17	i		R, 7
20.00	١.,	100.00	1	1		1				ŀ	ł	
98.868	10	383.05	1	1 .	T,13	1	07.066	6	363.67			Q 17
98.948	1	382.86	}	•	ll	1	07.173	7	363.42	R <sub>2</sub> 13	ł i	
99.017	9	382.70	Ì	ì	R <sub>32</sub> 11	į	07.246	10	363.25	ſ	Į į	5,2
99.545	2 10	381.45	1	1	R3111	1	07.425	14	362.82	l	•	
99.620	10	381.27		1	R 11	1	07.638	10	362.32		\$	R326
99.836	7	380.76	1	S. 8	1	1	07.671		362.24		1	
99.917	i	380.57	ł	S <sub>21</sub> 8	1 1	1	07.714	1 1	362.14			5,2
6500.008	2	380.36	1	1	1	1	07.791	1			R <sub>2</sub> 10	i
00.270	6	379.73	1	R <sub>2</sub> 13	1	1	08.048	5	361.96 361.35			
00.535	4	379.11	1	W	1 1	1	08.127	Ž	361.17		1	Q3216
00.333	*	317.11	1	1	1	1	00.12.1	۱۴	301.17			R <sub>M</sub> 6
CO.599	2	378.95	Ì	1	į l	1	08.179	10	361.04	1	R2110	T. 0
00.673	10	378.78	1		S <sub>33</sub> [		08.269	10	360.83		1	T <sub>31</sub> 0
00.771	4	378.55	ł	R <sub>21</sub> 13	-34	1	08.641	4	359.95	l		R, 6 Q, 16
00.863	i	378,33	1		1		08.712	i	359.79		i :	123 20
00.972	5	378.07	R, 15	•		1	08.784	5	359.61		1 1	
										[ ]		
01.054	7	377.88	}		R3210	1	05.860	105	359.44			R335
01,153	10	377,65	1	1	S31 5	1	C8.950	1	359.22			2034
01.429	2ъ	376.99	Į		"	Į	09.047	10ъ	358.99			5,, 1
01.540	1	376.73			R3110	1	09.173	1	358.70			38
C1.656	4	376.46	1		R, 10	1	09.284	1	358.43		1	
			1			1		1				
02.116	2	375.37	1		ı î	ļ	09.346	5	358.29			R <sub>32</sub> 5
02.193	10	375.18	]		T312	1	09.429	10	358.09			51
02.371	2	374.76				1	09.497	10ъ	357.93		5, 5	R <sub>3</sub> 5
02.492	1	374.48		!		1	09.666	3	357.53			
62.865	4	373.60		R2 12		1	09.808	1	357.20			
03 040	10	272 42				1	00.004	10	356 00			
02.940 03.049	20	373.42 373.16			R329	1	09.894 09.977	10	356.99			R334
03.161	10				S <sub>32</sub> 4	ı		6	356.80		R <sub>2</sub> 9	
03.242	i l	372.90 372.71		S <sub>21</sub> 7		1	10,069 10,156	5	356.58 356.38			Q, 15
03,310	3	372.55	!	1		1	10.367	4	<sup>350,38</sup>	R <sub>:</sub> 12		- 4
03,3.0	1	312.33			i	1	.0.501	•	22.00			R314
03.369	4	372.40		R <sub>21</sub> 12	Q, 19	1	10.476	10	355,62		9.0	
	z	372.22	[ .		R. o	!	10.559	10	355.43		R419	2.4
03.448 03.536	10b	372.01	l l	[R, 9	R <sub>31</sub> ? S <sub>11</sub> 4	1	10,643	2	355.23		ı	R, 4
03.775	3	371.44				1	10.727	10ь	355.03			R <sub>12</sub> 3
03.873	4	371.21				1	11.009	2	354.37			
	_					1					i	
04.114	.3	370,65	R <sub>2</sub> 14			1	11.195	8	353.93			R <sub>M</sub> 3
04.669	10	369.33			R338	1	11.289	. 3	353.70			- 1
04.754	1	369.13				1	11.368	10	353,52		[R <sub>12</sub> 2	Q <sub>3</sub> 14
05.035	2	368.47		i		1	11.446	10	353.34			R, 3
05.105	1	368.30		1		1	11.785	34	352.54		1	R312
05.169	4	368.15		ĺĺ	ا ه و	1	ا میری	١, ١	200		1	
03.243	10	367.98		[R, 8	R <sub>31</sub> 8 S <sub>32</sub> 3	1	11.947 12.046	3 2	352.15			Q <sub>32</sub> 13
05.318	io	367.80		R, 11	T <sub>31</sub> 1	1	12.125	9	351.92		!	
05.702	io	366.89			S <sub>31</sub> 3	1	12.182	3	351.71 351.60		R2 8	1
05.774	i l	365.72			~,,, "	1	12.368	ž	351.16			R, 2
	-				- 1	1		- 1	-31.10		ı	
Δ≅ 948	9	366,55		R2111	- 1	1	12.486	15	350.88		S <sub>21</sub> 4	į
05.926	1	366.36	ı		- 1	1	12.544	10	250.75		211.4	9, 13
	2	366.12		ı	1	1		10	350.56		Ras	*73 * 2
06.030											***************************************	
06.030 06.155	1	365, 82			1	1	12.721	1	350,33		- 1	
06.030 06.155		365, 82 355. 62			R327		12.721		350,33 350,04			

		λ	1	y	C	lassilic 7-4	ation	П	,	Τ.		1	Classific	ation
13.052   10   349.53   13.13   13.255   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   13.255   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   349.55   14   34			<del>i</del>			7 7		Щ.	<u> </u>	1	<u> </u>	<u> </u>	7-4	
13.131   4   349.37   1   1   1   1   1   1   1   1   1					1	1	Q3212		6519.174	5	15 335.13	3		1
13.255   1d   348,55   1d   348,55   13.568   9   348,33   13.750   13.47,95   14.170   10   346,92   14.170   10   346,92   14.170   10   346,11   14.444   10   346,11   14.575   5   345,14   14.790   3   345,45   14.575   5   14.575   5   14.575   16.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   15.181   10   344,53   16   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   343,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   15.181   10   344,18   10   344,18   10   344,18   10   344,18   10   344,18   10   344	- 1				R <sub>1</sub> 1)	1	1			1	334.93	r '	1	1
13,475   1d   348.55					ı	)	1 1	1			334.70	)	i	1
13.568   9   348.33   13.750   347.94   13.750   13.47.95   13.47.95   13.47.95   13.47.95   13.47.95   13.47.95   14.170   10   346.27   14.364   13.46.46   13.46.11   346.47   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.17   14.515   1   346.46   1   346.56   1   346.56   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57   1   346.57	- 1				1	I	1 1				334.50		1	1
13.5568   9   348.33   13.750   1 347.91   13.64.27   14.364   1 346.27   14.575   5 345.96   14.477   10.346.27   14.575   5 345.96   14.477   10.346.27   14.575   5 345.96   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   14.575   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37   10.346.37		13.413		230,23	J	1	1 1	1	19.570	2	334.20	/	Q.,12	2
13,750 1 347,69		13.568	9	348, 33	!	1	اد. م ا	ļ	10 (11	1		1	1 -	1
13.862   5   347.69   14.170   10   346.92   14.364   1   346.92   14.364   1   346.92   14.364   1   346.92   14.364   1   346.92   14.365   1   345.96   14.565   1   345.74   14.515   1   345.75   1   345.74   14.790   3   345.96   14.67   14.790   3   345.45   14.790   3   345.45   14.790   3   345.45   14.790   3   345.45   14.790   3   345.45   15.181   10   344.27   15.181   10   344.27   15.383   16b   344.06   15.569   10b   343.31   15.294   2   344.27   15.383   16b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   15.753   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   343.31   10b   3	1				1	1	1 43 12	1					B <sub>R</sub> 4	Qualz
14.170   10   346.96     14.444   10   346.27     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     14.515   1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   346.17     1   3	j	13.842	5		ļ		المصا	1					}	1
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26.276	9	318.76	}	١	1 1	}	32.165	10	304.64	Q129	ł	ł
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26.735	10	317.37	1	Q <sub>21</sub> 3	0,1]	1	32.996	1	302.70		ł	1
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26.993	106	316,77		Q <sub>20</sub> 3	Qu2	1	33.224	1	307 16		1	1
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27.138	7	\$16,43		O <sub>26</sub> )	1 1	1	33.380	l'i l	301.80		O <sub>25</sub> 3	1
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29.014	2	312.03 311.85		P <sub>2</sub> 2		İ	34.908	10	298.22		P2310	l
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29.358	3	311.22	1				35.345	1	297.26			!
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29.719	il	310.37	1				35.471	2	295.85			
	10	309.95	- 1	P <sub>22</sub> 2		1	35.560 35.638	10b	296.69			
i		•	İ	- 13-		1	33.036	100	296.51	Q <sub>1</sub> 7		
30.097	2	309.49	- 1	P <sub>3</sub> 3		1	35.814	1	296.10			
30.491	1	308.56				1	36.178	1	295.25			
30.584 30.662	7 2	308.35	Ola10			1	36.320	2	294.91			
30.725	2	308.16 308.02	i			1	35.466	1	294.57		1	
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	106	307.84	- 1	P23			36.789	1	293.82			
30.868	1	307.68	1			1	36.913	i	293.52		1	
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6537.381 37.461 37.534 37.652 37.931	1 16b 2 1	15 292.43 292.24 292.07 291.33 291.14	Cur	O <sub>23</sub> 5		6544.410 44.487 44.585 44.664 44.714		15 275.99 275.82 275.59 275.42 275.30	P <sub>1</sub> 7 P <sub>12</sub> 2 P <sub>1</sub> 6	P <sub>12</sub> 3] P <sub>12</sub> 1] Q <sub>1</sub> 0] O <sub>22</sub> 9 P <sub>11</sub> 6]	P117]
38.009 38.206 38.273 38.333 38.415	1 2 5 10b	290.96 290.50 290.35 290.20 290.01	Q <sub>1</sub> 5			44.804 44.879 44.998 45.116 45.302	10 10b 2 4	275.08 274.91 274.64 274.36 273.92	P <sub>3</sub> 4 P <sub>1</sub> 1-3 P <sub>13</sub> 4 P <sub>13</sub> 3 P <sub>13</sub> 2	P <sub>i</sub> 0]	
38.857 38.920 39.186 39.266 39.335	2 10 1 10 1	266.98 268.81 265.21 266.02 287.86	P <sub>12</sub> 17 R <sub>1</sub> 1			45.624 46.061 46.209 46.506 16.577	1d 1d 10 1	273.17 272.15 271.81 271.11 270.95		C <sub>23</sub> 10	
39.415 39.588 39.659 39.736 40.226	10 1 2 10b 3	287.67 287.27 287.10 266.92 285.78	Ω <sub>1</sub> 4 P <sub>1</sub> 16	O <sub>23</sub> 6 P <sub>12</sub> 16]		46.657 46.851 47.144 47.348 47.637	10 1 1 1d 1d	270.76 270.31 269.63 269.15 268.48	Oµl	O <sub>23</sub> 11	T <sub>51</sub> 10
40.477 40.564 40.878 40.938 41.017	6 10 1 3 10d	285.19 284.99 284.26 284.12 283.93	P <sub>12</sub> 15 Q <sub>12</sub> 3	P, 15]		47.726 47.814 48.044 48.530 48.632	1 10 1 2 6	268.27 268.06 267.53 266.39 266.16	O <sub>12</sub> 2	•	
41.150 41.260 41.549 41.662 41.747	3 10b 1 7	283.62 24.36 282.69 282.42 282.23	P <sub>12</sub> 14 R <sub>1</sub> 0 P <sub>1</sub> 14 P <sub>12</sub> 13	0257		48.716- 48.799 48.852 48.952 49.019	2 1 7 10 2	265.96 265.77 265.64 265.41 265.25	Nu2 Ou3	O <sub>23</sub> 12	S <sub>32</sub> 14
41.828 41.936 42.184 42.268 42.591	10 1 2 105 1	282.04 281.78 281.21 281.01 280.26	Q <sub>13</sub> 2	P <sub>1</sub> 13]	P <sub>12</sub> 12]	49.216 49.459 49.577 49.670 49.976	2 1 1 10 3	264.80 264.23 263.96 263.74 263.03	O <sub>13</sub> 3	S <sub>21</sub> 15	
42.722 42.790 42.683 43.021 43.073	10 9 1 10 10	279.95 279.81 279.57 279.25 279.14	P <sub>1.</sub> 11 P <sub>1</sub> 12 P <sub>13</sub> 12 Q <sub>12</sub> 1	O <sub>23</sub> 8		50,059 50,157 50,654 50,741 50,831	10 7 1 10 1	262.83 262.60 261.25 261.24 261.03	O <sub>12</sub> 4	O <sub>23</sub> 13	
43.115 43.237 43.301 43.367 43.454	10 10 1 2 100	279.04 278.74 278.59 278.44 278.24	P <sub>12</sub> 10 P <sub>1</sub> 11 P <sub>12</sub> 11 P <sub>12</sub> 9	Ω, 1]		50.916 51.003 51.084 51.148 51.245	1 1 10 10b 2	260, 83 260, 63 260, 44 260, 29 260, 07	N <sub>13</sub> 3 O <sub>12</sub> 5	O <sub>2</sub> 14	
43.536 43.618 43.705 43.782 43.848	1 10 10 2	273.05 277.85 277.66 277.47 277.32	P <sub>1</sub> 10 P <sub>11</sub> 8	P <sub>13</sub> 10]		51.414 51.667 51.797 51.956 52.035	1 1 10 1	259.67 259.09 258.78 258.41 258.23	0135		TMS
43.929 44.066 44.095 44.222 44.333	10b 3 10 10b 10b	277.12 276.91 276.73 276.44 276.18	P <sub>1</sub> 9 P <sub>11</sub> 6 P <sub>1</sub> 8 P <sub>12</sub> 4	P <sub>11</sub> 7] P <sub>15</sub> 9] P <sub>12</sub> 5] P <sub>13</sub> 8]		52.121 52.200 52.397 52.519 52.738	1 106 1 3	258.03 257.84 257.39 257.10 256.59	0126	O <sub>23</sub> 15	5 <sub>12</sub> 13

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53.008	2	255.96	-		61.894	Įż	15 235.91 235.30	1		
53.076	1	255.81		S <sub>31</sub> 13	62.011	1	235.03	} '	1 1 1	
53.134	2	255.67	[ [		62.130	1	234.76	1 :		
53.212	101	255.49	0127		62.241	4	234.50		S <sub>21</sub> 12	
53.287	1	255.31			62.313	1	234.33			
53.374 54.843	10	255.11	N134		62.394	7	234.14	N138		
54,034	11	254.02	7,17		62.565	2	233.75	1	R <sub>2</sub> 18	- 1
54.189	10	253.57 253 21	0,28		62.716 62.868	10	233.39* 233.04*			- 1
54,423	1	252.67			63.080	1	232,55		D 10	
54,630	14	252.19	1 1	1 1 1	63.217	8	232.23		R <sub>21</sub> 18	5 <sub>2</sub> 10
54.814	8	251.76	0,,8	1 1 1	63,745	2	231.01			3, 10
54.885	1	251.59		1 1	64.370	3	229.56	1 1	l la	, 16
55.029	1	251.26			64.446	3	229.38		R <sub>1</sub> 19	,
55.120	10	251.05	0,29		64.498	1	229.26			- 1
55.222	1	250 "1		R <sub>2</sub> 19	64.571	9	229.09	N <sub>13</sub> 9		
55.312	1	٥	1 1 1	1 1	64,714	7	228.76		1 1	[326 ]
55,568 55,659	10	01 ~27.79	N <sub>12</sub> 5		64.991 65.138	1	228.1 <b>2</b> 227.78			
55.736						•			1 1	1
55.904	6 2	249.61	Ou9	1 1	65.559	1 1	226.80		1 1 1	- 1
55.997	10	249.22 249.01	0.10		65.663	1	226.56		i	1
56.225	4	248.48	01210	الديال	65.785	3	226.27		R <sub>2</sub> 17	- 1
56.611	3	247.58	0110	T <sub>31</sub> 8  5 <sub>32</sub> 12	65.939 66.114	9	225.92 225.51		S <sub>21</sub> 11	- {
56.671	3	247.44			66.306	2	225.07		R2117	- 1
56.746	1	247.27		S <sub>3</sub> , 12	66,425	ī	224.79		1	- 1
56,819	10	247.09	0111	1 1		10	224.60		[S <sub>32</sub> 9 R	1215
57.07 5 57.430	2d	246.62 245.67	0,11		66.566	2 4	224.46 224.14			-
		1	1 1	1 11	i	Ť		N <sub>19</sub> 10		1
57.582 57.789	8	245.32	O <sub>12</sub> 12	1 / 11	66.878	4 1	223.74	1		}
57.929	9	244.84		1 1	67.023	6	223.40	- 1		119
58.184	i l	243.92	N <sub>12</sub> 6 O <sub>13</sub> 12	1 11	67.163 67.432	3	223.08 222.46	1	l R	, 15
	10	243.71		S21 13	68.025	2	221.08	- 1	R, 18	1
58.390	1	243.44		R, 18	68,413	1	220.18	1	- 1 1	1
58.893	5	242.28	0,214 0,13]	1 7 11	68.724	10 l	219.46	1	-	315
59.219	2	241.52	ز ا	R <sub>2</sub> 19	68.799	4		N,,11	1 12	"
59.448   59.513	5 2		Op15 Op14	.	68.906 69.217	2	219.04 218.32	- 1	R <sub>2</sub> 16	
	. 1	ŀ	3	- 1 11	ł	_ }				3214
59.620 59.723	1	240.58 240.35	1 1	R <sub>31</sub> 19	69,289 69,351	1	218.15	1		- 1
59.794	9 1	240.18	1 1	S <sub>32</sub> 11	69.430	il	218.01 217.83	ł	12.16	- 1
59.923	1		01216		69.548	·il	217.55	ŀ	Ra116	- 1
60.054	1		0,315	_ ,		10	2'7.32	I	s,	. 8
	10	239.30	N <sub>13</sub> 7	1 11	. 69.831	6	216.90	I	R	, 14
60.304	3		0,17	[S <sub>31</sub> 11]	69.877	7	216.79	- 1	S <sub>21</sub> 10	۱.,۰
60.382	1 !	238.82	, ,	- 1 11	70.711	1	216.48	I	"	- 1
60.467	7	238.52	1 1	1 11	70.097	1	216.28	I		
į.	1	j		T317	70.156	*	216.15		S,	8 1
60.633	2	238.12 237,92			70.262	2 2	215.90	1		
60.839	2	237.75	1 1	R <sub>31</sub> 17	70.692	2	214.61	- 1	1 1	1
61.255	ī	236.79	1	1	71.410	i l	213.24	i	1 1	í
61.442	4	236.35	1 1	R, 17	71.510	5	213.01	- 1	R, 17	Į
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71.750	8				ا در ۱	6579.119				İ	R, 10
71.750		212.45			R <sub>32</sub> 13	79.212	2	195.20			O <sub>2</sub> 20
71.907	6	212.09		R <sub>2</sub> 15	i ł	79.462	2	194.62	1	!	
72.128	1	211.58			l l	79.653	10	194.18	1 1		TagZ
72.271	1	211.25			R <sub>31</sub> 13	79.743	1	193.97		i	i
72.365	10	211.03	1		R <sub>2</sub> 13	79.858	1	193.71	\$		1
72,432	4	210.87		R2115	1 6	80.270	9	192.76		Rg 12	•
72.496	1	210.73		**21	} {	80,369	Ź	192.53			•
	10	210.60			T. 4	80,447	10	192.35		1	
	10	210.43			T <sub>31</sub> 4 S <sub>32</sub> 7	80,512		192.30		S <sub>21</sub> 7	R229
	_		!		- 1		l l			-	
72.795	2	210.04	N <sub>13</sub> 13		1	80.548	10b	192.12	1		Sy2.4
72.981	2	219.61			1 1	80.784	1 0	191.57	f :	R <sub>81</sub> 12	•
73.063	1	259.42			: 1	80.883	2	191.34	1		f
73.131	10	259.26			S <sub>31</sub> ? }	80.966	4	191.15		l	R219
73.371	1	218.70				81.030	10	191.00			S31 4
73.529	10	258.34		S21 9		81.076	10Ь	190.90		'	
73.694	ĭ	257.96		~21 7	i	81.205	5				R, 9
73.808	2	257.69			i i	81.325		190.60			C <sub>3</sub> 19
74.143	7				۱, ,, ۱			190.32	ا م	۱ ۱	1
		2:5.92	1		R <sub>32</sub> 12	81.459	8	190.01	R <sub>1</sub> 14	l	1
74.398	1	256.33				81.631	1	189.62			
74.525	1	255.03			1	81.756	1	189.33			ì
74.655	i	2:5.73	1		R3112	81.920	2	188.95	1	[	t
74.759	2	2:5.49			R, 12	82.085	l ī l	188.57			l
74.807	4	2:5.38		R <sub>2</sub> 14		82.157	l i l	188.40	! :		ł
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75.438	10	2:3.92			5126	82,610	3	187.36	į į		l
75.603	2	213.54				82.683	3 1	187.19	f .		ł
75.798	14	213.09				82.748	10	187.04			R318
75.945	9	212.75				82.820	105	186.87			
76.033	i l				S <sub>31</sub> 6		10			R <sub>2</sub> 11	S <sub>32</sub> 3
76.128	il	212.55				82.881		186.73		[T <sub>21</sub> ]	R, 0
	10	2:2.33			1	83.070	6	186.30	1		Ω <sub>3</sub> 18
	10	2:2.15			T <sub>31</sub> 3 R <sub>32</sub> 11	83.140 83.217	3	186.13 185.96			1
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76.597	2	2:1.24	i		1	83.292	10	185.78		'	5, 3
76.787	1	2 33.80			1	83.343	10	185.67		Rati	1 **
76.864	1	2:0.63			1	83.438	2	185.45			1
76.934	2	210.46			R3111	83.542	l î l	185.21			ł
	10	210.29			R, 11	83.640	2	184.98			
77.081	10	200.12				1 07 713	١,١	104 55			•
77.261	1	15 139.71		S <sub>21</sub> 8	į	83.722	,2	184.79			١
77.379	il					83.857	100	184, 48		S21 6	K <sub>32</sub> 7
77 402		159.43	Į			84.022	2	184.10			i _
77.493	ا في	179.17			1	84.212	1 1	183.66			Q <sub>32</sub> 17
77.593	10	153.94		R <sub>2</sub> 13	1	84.297	1	183.47			
77.701	3	142.69	ı			84.377	7	183.28			R317
78.002	2	137.99			1	84.500	10Ы	183.00			R <sub>2</sub> 7
	106	157.60	Ī	R2113	5,25	84,612	10	182.74	R <sub>1</sub> 13		.,,
78.227	8	:57.48	R <sub>1</sub> 15	410	-36-	84.664	l i l	182.57	1		l
78.336	2	157.22				84.748	i i	182.43			
70 44	. 1		1		1	1					
78.416 78.499	10	157.04 1=6.85			P 10	84.815	8	182.27			Ω, 17
	10				R <sub>32</sub> 10	84.898	10Р	182.08			5,22
	il	190.65 190.20	j		S <sub>31</sub> 5	84.968	6	181.92			l
70 701 1		1 ** D . Z () 1			i 1	85,126	2	181.55			F
78.781 79.021	ż	125,64	, ,		R,110	85,265	10 1	181.23		R <sub>2</sub> 10	l .

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6585.311 85.340 e5.486 85.592 85.711	10 6 1 1	15 181.13 181.06 180.72 180.48 180.21			R <sub>32</sub> 6 S <sub>31</sub> 2	6590.514 90.603 90.683 90.768 90.829	1 10 10 5	15 169.14 168.94 168.75 168.56 168.42	R <sub>1</sub> 11	Ω 16	
85.790 85.871 95.963 86.239 86.344	10 10 10 10	180.02 179.84 179.62 178.99 178.75		Lais	R <sub>31</sub> 6 T <sub>31</sub> 0 R <sub>3</sub> 6	90.871 91.274 91.352 91.396 91.491	3 6 10	168.32 167.39 167.22 167.11 166.89	Q <sub>1</sub> 19	Ω <sub>11</sub> 16	Qu12
86.435 86.575 86.637 86.700 86.765	8 105 1 1 10	178.54 178.21 178.07 177.93 177.78			C <sub>5</sub> ' A R <sub>M</sub> 5	91.779 91.860 91.937 92.187 92.255	9 1 10 2 1	166.23 166.04 165.87 165.29 165.14		R <sub>4</sub> 7	Q <sub>32</sub> 11
86.897 86.976 87.057 87.168 87.239	1 5 10b 10 10b	177.47 177.29 177.10 176.85 176.68		S <sub>21</sub> 5 [Q <sub>32</sub> 15	R <sub>51</sub> 5 S <sub>21</sub> 1 R <sub>8</sub> 5	92.314 92.397 92.447 92.522 92.562	3 10 10 9 9	165.00 164.81 164.69 164.52 164.43		Rai7 On 15	Q <sub>32</sub> 10
87.436 87.525 87.599 87.650 87.810	1 10 100 100	176.23 176.02 175.85 175.74 175.37	R <sub>1</sub> 12	R <sub>2</sub> 9	Rad	92.703 92.815 92.504 93.015 93.090	1 10 2 2 2 10	164.11 163.85 163.64 163.39 163.22			Ω <sub>38</sub> 3
87.901 87.970 88.043 88.121 88.198	10 1 2 10b	175.16 175.00 174.83 174.65 174.46		R <sub>21</sub> 9	Q <sub>5</sub> 15	93.108 93.155 93.255 93.293 93.360	4 10 2 1 10	163.17 163.07 162.84 162.75 162.59		Ω <sub>11</sub> 15 8 <sub>31</sub> 3	Ω <sub>32</sub> 9 Ω <sub>3</sub> 10 Ω <sub>32</sub> 4
88.266 88.339 88.441 88.520 88.632	2 105 3 10b	174.32 174.15 173.92 173.73 173.47			R <sub>3</sub> 4 R <sub>32</sub> 3 Q <sub>32</sub> 1 &	93.458 93.541 93.609 93.690 93.742	2 10 10 10	162.37 162.18 162.02 161.84 161.72	B <sub>1</sub> 10	[Q <sub>38</sub> 8	Ω, 3 Ωμ5 Ωμ7
88.708 88.776 88.856 88.925	2 1 : 1	173.30 173.14 172.96 172.80				93.629 93.929 93.988 94.047	10 10 2 10	161.52 161.29 161.15 161.01		R <sub>2</sub> 6	Ω <sub>32</sub> 6
88.996 89.104 89.181 69.250 89.430 89.528		172.64 172.39 172.21 172.05 171.64 171.43		[Q <sub>3</sub> 14 Q <sub>21</sub> 17	R <sub>31</sub> 3 R <sub>32</sub> 2 R <sub>3</sub> 3	94.164 94.257 94.355 94.415 94.474 94.607		160.75 160.51 160.17 160.17 160.03 159.73		Q <sub>2</sub> 14	Ω 5 Ω 7 Ω 6
89.633 89.751 89.829 89.922 90.016	10	171.17 170.90 170.72 170.50 170.29		R <sub>2</sub> 8	R <sub>31</sub> 2 C <sub>32</sub> 13 R <sub>3</sub> 2	94.693 94.787 95_020 95.241 95.335	3 3 1 2	1/59.53 1/59.31 1/58.78 1/58.27 1/58.05		On14 Oz14	•
90.085 90.164 90.252 90.340 90.436	10	170.13 169.95 169.74 169.74 169.32		S <sub>21</sub> 4 R <sub>22</sub> 8	Ω, 13	95.449 95.536 95.604 95.679 95.755		157.79 157.59 157.44 157.26 157.09	Ω <sub>13</sub> 17	O. 13	

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1	I	γ	1,524	6-3	ion		λ	1	v		6-3	
6595.822 95.889 95.969 96.049 96.118	10 2 8 10 2	15 156.93 156.78 156.60 156.41 156.25	Ω, 17	R <sub>2</sub> 5			6601.374 01.422 01.466 01.540 01.606	2 10 10 1	15 144.19 144.08 143.98 143.81 143.65	Q <sub>12</sub> I4	S <sub>21</sub> 0 Q <sub>2</sub> 8	P3 6
96.201 96.314 96.401 96.463 96.660	2 10b 2 10	156.06 155.80 155.60 155.46 155.01	. R <sub>1</sub> 9	O <sub>21</sub> 13 R <sub>21</sub> 5	Q <sub>23</sub> 13]		01.775 01.851 01.909 01.994 02.100	1 4 10 10	143.27 143.09 142.96 142.76 142.52	R <sub>3</sub> 7	Q <sub>21</sub> 8 Q <sub>22</sub> 8	
96.760 96.914 96.98B 97.064 97.453	2 1 1 10 1	154.78 154.43 154.26 154.08 153.19		Ω2 12			02.178 02.285 02.340 02.434 02.527	9 10b 9 2 1	142.34 142.10 141.97 141.76 141.54	Ω <sub>1</sub> 14	Q <sub>2</sub> 7 R <sub>2</sub> 1	
97.602 97.685 97.837 97.941 98.015	10 6 1 1 3	152.84 152.65 152.31 152.07 151.90		R <sub>2</sub> 4 Q <sub>23</sub> 12	Q <sub>21</sub> 12]		02.597 02.663 02.747 02.797 02.930	1 2 10 10	141.38 141.23 141.04 140.92 140.62		R <sub>21</sub> 1 Q <sub>21</sub> 7 Q <sub>21</sub> 7	P3 7
98.097 98.183 98.259 98.337 98.484	10b 1 2 10b 1	151.71 151.51 151.34 151.15 150.82	Q <sub>1</sub> 16	R <sub>21</sub> 4	P <sub>3</sub> 4		02.985 03.074 03.346 03.429 03.501	10 1 3 2 10	140.45 140.29 139,66 139,47	Q <sub>12</sub> 13	Q <sub>2</sub> 6	
98.591 98.671 98.739 98.791 98.653	1 2 4 10 10	150.57 150.39 150.23 150.12 149.97		S <sub>21</sub> 1 Q <sub>21</sub> 1 1			03.588 03.645 03.850 03.936 03.999	10 10 2 2 7	139.11 138.98 138.51 138.31 138.17		Q <sub>2</sub> 5 Q <sub>25</sub> 6	
98.955 99.065 99.140 99.265 99.348	10 1 2 10b 1	149.74 149.49 149.31 149.03 148.84	R <sub>1</sub> 8	Ω <sub>23</sub> 11			04.082 04.170 04.258 04.350 04.467	10 2 10b 2 10	137.98 137.78 137.57 137.29 137.09	[Q <sub>21</sub> 5	C <sub>2</sub> 4 R <sub>21</sub> 0 Q <sub>25</sub> 5 Q <sub>4</sub> 3	P3 8
99.416 99.492 99.602 99.671 99.753	2 10 2 9 105	148.68 148.50 148.25 148.09 147.91	Ω <sub>12</sub> 15	O <sub>2</sub> 10			04.570 04.675 04.772 04.857 04.939	10 10 10 2 10	136.86 136.62 136.40 136.20 136.01	R <sub>j</sub> 6	Q <sub>41</sub> 4 Q <sub>81</sub> 4 Q <sub>81</sub> 3	Ω, 2] Ω, 1]
99.711 6600.006 00.075 00.128 00.187	3 9 10 9	147.54 147.33 147.17 147.05 146.91	Ω <sub>1</sub> 15	O210	P3 5		05.046 05.118 05.202 05.269 05.349	10 4 10b 2 10	135.77 135.60 135.41 135.26 135.07		Q <sub>EL</sub> Z Q <sub>EL</sub> 1	P <sub>3</sub> 9
00.382 00.457 00.537 00.724 00.863	1 3 105 1 8	146.45 146.29 145.11 145.68 145.36		Q <sub>2</sub> 9			05.434 05.510 05.588 05.663 05.753	1 10b 1 2	134.88 134.70 134.53 134.35 134.15		Ons	
00.968 01.059 01.170 01.233 01.311	1 10 10 2 10	145.12 144.91 144.66 144.51 144.33		Q119 Q219 P.212			05.833 05.909 05.998 06.085 06.180	10 10 4 10b 1	133.96 113.79 133.59 133.39 133.17	C, 12	Qul	P <sub>2</sub> 10

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6606.283 36.367 06.447 06.594 06.820	2 1 10 2 1	15 132.93 132.74 132.56 132.22 131.70			P3 11	6611.353 11.453 11.515 11.604 11.686	3 2 7 10b 2	15 121.33 121.10 120.96 120.76 120.57		. P2 7	P216]
06.905 06.981 07.046 27.132 07.201	10 1 2 10 10	131.51 131.33 131.19 130.99 130.83	Ω <u>13</u> 11		P <sub>9</sub> 12	11.757 31.820 11.908 12.008 12.064	10b 3 1 i0 2	120.40 120.26 120.06 119.83 119.70	Ωμεδ	O <sub>23</sub> 3	
07.301 07.498 07.576 07.661 07.727	10b 3 2 10b 2	130.60 130.15 129.97 129.78 129.63	R <sub>1</sub> 5		P <sub>3</sub> 14	12.126 12.235 12.343 12.428 12.526	10 10 3 10 10b	119.56 119.31 119.06 118.87 118.65	R <sub>1</sub> 3 Ω <sub>1</sub> 8	P <sub>2</sub> 8 P <sub>23</sub> 7 P <sub>2</sub> 9	
07.835 07.920 07.975 08.058 08.130	2 2 2 2 3	129.38 129.18 129.06 128.87 128.70				12.620 12.757 12.045 12.906 12.973	8 10b 9 6	118.43 118.12 117.92 117.78 117.62		P <sub>13</sub> 12 P <sub>23</sub> 8 F <sub>2</sub> 10 P <sub>23</sub> 11	
08.211 08.251 08.410 08.484 08.756	10b 1 5 4	- 128.52 428.36 128.06 127.89 127.27		P <sub>22</sub> 2 P <sub>3-</sub> 3		13.043 13.111 13.172 13.237 13.311	10 2 10b 9	117.46 117.31 117.17 117.02 116.85	·	P <sub>2</sub> 11 P <sub>2</sub> 12 P <sub>23</sub> 9	P2010}
08.825 08.905 08.957 09.002 09.066	10 1 1 4 6	127.11 126.93 120.81 126.71 126.56	Ω <sub>12</sub> 10			13.373 13.466 13.510 13.592 13.665	2 10 10 2 10	116.71 116.50 146.40 116.21 116.04	Ω <sub>12</sub> 7	P <sub>23</sub> 10	
09.152 09.254 09.346 09.475 09.543	10b 2 10b 4 1	126.36 126.13 125.92 125.62 125.47	Ω, 10	P <sub>23</sub> 3		13.733 13.803 13.870 13.956 14.025	10 5 6 10 10b	115.69 115.73 115.57 115.38 115.22	Q <sub>1</sub> 7	P <sub>23</sub> 12	
09.676 09.744 09.810 09.888 09.967	1 1 2 10b 2	175.16 125.01 124.86 124.68 124.50	R4 4			14.202 14.354 14.491 14.623 14.705	1 2 2 1	114.82 114.47 114.15 113.85 113.67			
10.050 10.116 10.203 10.336 10.442	105 2 10 4 10	124.34 124.16 123.96 123.65 123.41	C)129	У <sub>20</sub> 4 Р <sub>2</sub> 5		14,766 14,849 14,939 14,966 15,144	2 10b 9 3	113,53 113,34 113,13 113,07 112,66	R <sub>3</sub> 2 Q <sub>12</sub> 6		
10.524 10.626 10.671 10.723 10.789	1 2 1 4 8	123.23 122.99 122.89 122.77 122.62				15.209 15.276 15.320 15.392 15.474	1 3 8 10b	112.51 112.36 112.26 112.10 111.91	Q <sub>1</sub> 6		
10.875 10.954 11.060 11.144 11.255	10b 10 2 1 2	122.42 122.22 122.00 121.81 121.55	Ω1 9	P <sub>25</sub> P <sub>2</sub> 6		15.602 15.734 15.862 15.936 15.994	4 1 3 2 3	111.62 111.32 111.02 110.85 110.72	P <sub>12</sub> 19	•	

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λ	1	v	6-3	2001	2	1	•	CIA	sificati 6-3	1013
6616.078 16.139 16.225 16.293 16.378	10b 7 2 4 10b	15 110.53 110.39 110.19 110.04 109.84	P <sub>1</sub> 19 O <sub>31</sub> 5		6620.934 29.997 21.077 21.177 21.238	7 10 3 2 1	15 <b>999.</b> 45 899.30 099.12 098.89 \$78.75	P <sub>1</sub> 13 P <sub>13</sub> 13	P <sub>J2</sub> 12]	
16.445 16.530 16.634 16.718 16.802	3 5 6 10	109.69 109.50 109.26 109.07 108.88	Pµ18		21.288 21.363 21.444 21.525 21.606	2 3 10 10 2	053.64 058.47 059.28 058.10 057.91	P <sub>12</sub> 11 P <sub>1</sub> 12 P <sub>12</sub> 12		
16.880 17.056 17.166 17.242 17.310	10b 2 6 1	108.70 108.30 108.04 107.87 107.72	Q <sub>1</sub> 5 P <sub>1</sub> 18		21.678 21.755 21.811 21.833 21.875	10 1 10 10 10	097.75 097.57 097.47 097.40 097.30	Q <sub>12</sub> 1 P <sub>12</sub> 10	O <sub>20</sub> 8	
17.394 17.463 17.578 17.649 17.750	10b 1 6 3 10	107.52 107.37 107.10 106.94 106.71	R <sub>1</sub> 1 P <sub>12</sub> 17 Q <sub>12</sub> 4		21.973 22.028 22.082 22.147 22.264	10 2 10 10	097.08 856.95 096.83 096.68 096.41	P <sub>1</sub> 11 Q <sub>1</sub> 1 P <sub>12</sub> 9	P111]	
17.818 17.886 17.952 18.017 18.108	2 1 4 2 10	106.56 106.40 106.25 106.10 105.90	P <sub>1</sub> 17 O <sub>25</sub> 6		22.352 22.413 22.482 22.533 22.621	10 10 5 9	096.21 096.07 095.92 095.80 095.60	P <sub>1</sub> 10 P <sub>12</sub> 8 P <sub>13</sub> 10 *		
18,168 18,242 18,300 18,423 18,712	2 10b 7 5	105.76 105.59 105.46 105.18 104.52	Ω <sub>1</sub> 4 P <sub>12</sub> 16	ŀ	22.675 22.730 22.794 22.853 22.922	10 2 10 2 10b	095.48 695.35 695.21 695.07 694.91	1	P <sub>12</sub> 6] P <sub>12</sub> 5]	
18.875 18.953 19.088 19.196 19.328	2 7 105 8 5	104.14 103.95 103.66 103.41 103.11	P <sub>1</sub> 16 Q <sub>10</sub> 3 P <sub>12</sub> 15		23.014 23.086 23.149 23.243 23.360	10 13 10 10	054.71 094.54 094.40 094.18 094.05	P, 7	P <sub>12</sub> 2] P <sub>12</sub> 1] P <sub>12</sub> 7]	
19.415 19.494 19.564 19.650 19.715	4 2 105n 1	102.91 102.73 102.57 102.38 102.23	Ω <sub>1</sub> 3 P <sub>1</sub> 15		23.369 23.420 23.495 23.573 23.701	2 10 10 10b 6	093.89 093.78 093.61 093.43 693.14	P <sub>1</sub> 5 P <sub>1</sub> 4 P <sub>1</sub> 1,2,3 P <sub>3</sub> 14	P <sub>13</sub> 5] P <sub>1</sub> c] O <sub>23</sub> 9 P	°115
19.782 19.877 19.952 20.040 20.103	10 8 4 10b 2	102.07 101.86 101.69 101.49 101.34	R <sub>1</sub> 0 P <sub>12</sub> 14 O <sub>23</sub> 7		23.814 23.856 23.963 24.030 24.123	8 2 2 2 1	072,88 092,79 092,54 092,39 0 <del>9</del> 2,17	P <sub>13</sub> 3 P <sub>13</sub> 2		
	1 2 2 10 10	101.20 101.02 100.87 100.68 100.50	Q <sub>13</sub> 2 P <sub>1</sub> 14		24.212 24.303 24.369 24.433 24.516	1 3 2 1	091.97 091.77 091.62 091.47 091.28			
20.616 20.696 20.763 20.847 20.900	2 2 4 105 4	100.17 099.99 099.84 099.64 099.52	Q, 2		24.642 24.747 24.831 24.902 25.030	1 2 ! 2 1	090.99 090.76 090.54 090.40 090.11			

→N I line 6652.53

<b>λ</b>	1		6-3	lassific	ation 5-2		1		6-	Classi 3	fication 5-2	
6625.115	1	15 089.92				6630,747	106	15 077.10	0115			
25.197	10	089.73	l	0210	1	30.614	1	076.95	_	}		i
25.260	1 1	089.51	1			30.969	6	076.59		1		l
25.315 25.397	2 10b	089.46	١ ا			31.053	3	076.40		<b>1</b>		1
25,391	100	089.27	0121		1	31.171	10Ь	076.14	0,26			į
25.566	1	088.89				31,237	3	075.99				
25.668	1	088.66			i	31,380	3	275.66	} '			
25.778	1	088,41	1		l l	31.513	9	075.36		O <sub>23</sub> 15		5,,
25.899 25.986	2	088,13 087,93	1		T3110	31.585 31.695	3 2	075.19 074.94				
		1	1		1			į .	1	1		
26.183 26.256	1 2	087.48	j j		li	31.758	1.1	074.80	اء	1	•	}
26.345	î	087.32 087.12			ii	31.830 31.952	10	074.64	0116	1		ļ
26.458	5	086,86	1		}	32.024	3	074.20			•	5,1
26.514	2	086.73				12.086	3	074.05				7
26,598	10	006.54	١,,			22 126	2	073 04				
26.693	10	086.54 086.32	012	Onli	1	32.136 32.241	10ь	073.94 073.70	0,17	1		1
26.858	i	085.95	1 1	O2311	İİ	32.374	10	073.40	N <sub>11</sub> 4			l
26.952	i	085,73			1	32.428	3	073.28		0216		l
27.099	1	085.40				32.530	1	073.05		-		ĺ
27.232	1	085.10			1	32,677	4	072.71				1
27.314	ī	084.91	1 1			32.797	l i	072.44				1
27.434	9	084.64	0,,2		[ ]	32.887	10	072.23	0,7	1	į į	1
27.500	2	084.49	- 1		i	32,975	1	072.03	"	. 1		1
27.562	1	084.35				33_057	4	071.85				
27.628	2	084.20	1 1			33.115	1	071.72		1		l
27.689	10	084.06	NuZ		ı	33.180	2	071.57		O <sub>20</sub> 17	1	•
27.783 27.902	105	083.84	O <sub>12</sub> 3		ì	33.267	100	071.37	0128	1		1
	10	083.57 083.1 <b>8</b>		On12		33,334 33,447	2	071.22 070.96		i		1
				- 6	1	1		i				l
28.163	1	082.98			I	33.511	4	070.82			ľ	•
28.370 28.435	3	082.51 082.36			!	33.651 33.705	3	070.50 070.38				
28.519	10	082.17	0,,3			33.783	l i	070.20				ı
28.645	2	081.68			]	33.906	10	069.92	0,,8			
28.732	2	081.68	) }		1	34.613	١.	000 44				1
28.787	3	081.56	1		1	34.013 34.096	2 2	069.66				i
28.853	4	081.41			1	34.157	3	069.35				ı
28.942	105	081.21	0,34	]	Ì	34.247	106	069.15	0,19			I
29,095	1	080.86			l	34,383	5	068.84				R,
29.185	1	080.65		i	1	34,493	2	068.59				1
29.262	1	080.48	1	1	Ì	34.600	1	068,35		1		I
	10	080.30		0213	1	34.673	2	068.18		1		1
29.555	10	079.81 079.62		- 1		34.754	10	067.99	N <sub>13</sub> 5	1		1
-7.030	• [	017.02	Ou4	(	1	34.822	3	057.84				1
29.724	1	079.43	]	j	- 1	34.883	10	067.70	0119	1		Į
29.827	3	079.19	{	ì	. 1	35.016	5	067.40				i
29.920	5   10	078.98 078.78	, . I	. I		35.064	5	067.29		j	•	1
	105	078.63	N <sub>13</sub> 3 O <sub>12</sub> 5	ı	1	35.175 35.238	105	067.04	O <sub>12</sub> 10	1		
30.24	٠, ١		-	•	- 1			•		1		}
30.244	1	078.24	į į	4		35.312	1	066.73		1	) (	}_
30. 492	8	077.91 077.68		~		35.331	66	066.68		{	Tus	575
30.604	3	077.43	ŀ	C214	1	35.483	5 2	055.34 066.10	!	•		į
30.671	ž	077.27	i	j	T319	35.681	lž	065.89	1	1		1
	_			î	***/	33.001	ı ~	1 003.07	ı	1	•	1

·	<del>,                                    </del>	T			r	<del></del>	<del></del>			
λ	1		6-3	fication 5-2		1		6-3 C	laesifica 5-	
6635,758	1	15 065.71			6640.923	1	15 054.00			1
35.806	8	065.61	0210		41.004	3	053.82	1	ľ	į
35.873	3	065.45	1 - 1	S <sub>31</sub> 12	41.058	3	053.69	1	•	1
35.959	2	065.26	!!		41.259	2	053.23	i	Ĭ	1
36.046	10ь	065.06	0,11		41.345	1	053.04			l
36.248	1	064.60	1 1		41.445	8	052.81	1	52 12	ŀ
36.360	8	064.35	1 1		41.528	[ Z	052.63	[		i
36.556	1	063.90	1		41.655	7	052.34	i	ı	!
36.679 36.750	9	063.62 063.46	Op13		41.773 41.830	10	052.07 051.94	N <sub>13</sub> 8	<b>X</b>	i
		063.34					Ĭ	İ		
36.806 36.855	10	063.22			41.916	1 !	051.75	I	ā .	l
36.944	3	063.02	O <sub>D</sub> 12		42.008	1	051.54	i	ŧ	i
37.036	4	062.81			42.119 42.319	li	051.29 050.83	1	8	l
37.115		062.63	N <sub>11</sub> 6		42.418	3	050.61			[
37.214	1	062.41			42.502	1	050.42			İ
37.339	4	062.13	! 1	S <sub>21</sub> 13	42.592	8	050.21	1		5,310
37. 183	4	051.80	Op12	***	42.856	Ž	049.62			23.0
37.595	10	061.54	0113		42,919	ī	049.47		Q .	İ
37.656	1	061.41	_	R, 18	43.013	2	049.26			1
37.710	4	061.29			43.106	2	049.05			S <sub>11</sub> 10
37.768	2	061.15	1		43.214	1	048.81	1	}	Rul6
37.882	1	060.89		1 1 11	43,323	2	048.56		i i	-
38.001	4	060.63	j j	1 11	43.402	3	048.38	i	B	i
38,128	1	060.34			43.480	1	048.20		1	
38,213 38,263	4 8	060.14 060.03	O <sub>2</sub> 13		43.603 43.686	2 8	047.93			
38,376	2	059.77	O <sub>22</sub> 14	1 1	43.754	3	047.73 047.58			ł
38.450	2	059.61		1 1 11	43.835	3	047.40			- 14
38.508	1	059.48			43.975	í	047.08			R, 16
38.567	٠,	059.34			44.047	10	046.92	N <sub>13</sub> 9		
38.670	- 3	059.11		1 1 11	44,112	6	046.77	*137		T516
38.765	4	058.89		1 1 11	44.259	3.	046.44	i i		-"
38.865	10	058.55	O <sub>D</sub> 15 O <sub>D</sub> 14]	[	44.409	3	V26.10			
38.956	-	058.46		.	,44.526	5	045.83			
39.038	8	058.27		S32 11	44.578	2	045.72		}	
39.233	1 1	057.83	1 1	-	44,743	1	045.34			
39.304	١	057.67			- 44.824	4	045.16			
39.371 39.457	5	057.52 057.32	Oul6 Np7 Oul5		44.907 44.976	9	044.97 044.81			
39.555 1	1	I				•		Ĭ .		
39.693	2	057.10 056.78	1 1	S <sub>21</sub> 1 1	45.113	4	044.51	1		
39.793	9	056.55	0,17	T327	45,404	ž	. 014.28 043.85	l	1	
39.860	ź	056.41		-"' }	45.456	8	043.73		52,11	
39.933	1	056.24			45.619	ĭ	043.36		~~	
40.011	4	056.07		'	45.695	5	043.19		i	
40.066	1	055.94			45.755	1	¢43.05			
49.126	6	055.80	0218	]	45.832	2	042.88			
40.197	2 5	055.64 055.40		R3217	45.905 45.988	10	042.71 042.52	1		5129
40.378	2	• 1					i			
40.451	4	055.23 055.07	O <sub>11</sub> 9		46.201	1	042.31 042.04			R <sub>32</sub> 15
40,561	5	051.62	೦ೄ೭೦]		40.281	8	041.85	N.,10	R <sub>2</sub> 17	
40.638	1	054.64	O <sub>12</sub> 21		46.510	5	041.34			5,19
40.813	6	054.25	j	R <sub>3</sub> 17	46.584	2	041.17			R,15
1		1				1				

\*N I line 6637.00

#N I line 6644.94

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	١.		6-3	esifica		1		1_	ł	CI	Assifica	
λ	1	· ·	0-3	5-		1	λ	I	<u> </u>	6-3	5-	Z
6646,718	7	15 040,87			R, 15	1 66	51.595	5	15 630 04			
46.848	i	040.58			149 13	1 %	51.696	3	15 029.84	ł		ł
46.980	3	040.28				t	51.801		029.66	<b>i</b> <u>l</u>		1
	Ž	040.16			1 1	1		4	029.38	1 }		1
47,033	í			i	1 1	1	51.874	2	229.21		1	l
47.104		040.00			1 1	1	51.988	5	028.95	1	l	R <sub>21</sub> 13
42 200		020.76			1 1	ł		1				
47.209	4	039.76	1		1 1	1	52.081	10	028.74		R <sub>21</sub> 15	R, 13
47.288	2	039.58			1 1	1	52.168	2	028.55	·	ĺ	•
47.353	3	039.44		•	} }	ŀ	52.233	10	928.40	5	Ì	•
47.439	2	039.24		, ·	1 1	j .	52.320	10	028.21		i	5,, 7
47.585	3	038.91			1 1	1		i	1		ŀ	
	-	420 (5		ŀ	1 1							
47.703	5	038.65	٠,		1 1	ļ				•		
47.871	6	038.26			1 1	ł						
47.978	6	038.02			1	ı	Gap is	a the	measureme	nts whic	contai	ns the
48.197	1	037,52			1	fo	llowing i	and.	The P11 1	ne coinc	iw galbi:	th the
[ 48.261	10	037.38			1 1	m	ain bead	(P <sub>1</sub> )	is listed.		-	
]					[ ]	1						
48.324	1	037.24			i l	1	A	1	v	Ъал	d	
43.450	1	037.07		R <sub>2</sub> 16	I	}						
48,454	9	036.92	Null		{	67	04.79	10b	14 910.60	5-2	}	
48,531	1	036.77	_		1	Ì						
48.622	1	036.57			1 1	T	e rotati	onal i	tructure of	this has	nd ie giv	en by
				i i	1	N:	udé.					,
48.778	3	036.21			i i	1						
48.843	3	036.07	1		R <sub>32</sub> 14	I						
48.964	2	035.79		R2116		i						
49,075	3	035.54			į į							
49.141	1	035.39			1	ł	λ	1		ì	4-1	
.,,	- 1	*				<u></u>			λ		4-7	
49.236	10	035.18			5,28	1 67	26.080	5	14 863.41			~ 4
49.296	1	035.04			\		27.358	í	860.58			T316
49.341	7	034.94			R <sub>31</sub> 14		28.038	4	859.08		S <sub>2,2</sub> 11	
49.407	i	034.79		52110			28.413	2	858.24			S <sub>12</sub> 9
49.468	5	034.65		2420	R, 14		28.585	õ				1
*/, 400	- 1	0,4,0,			A	1	20.383		857.87			5,19
49,513	2	034.55				1	28,855	1	057 30			
49.574	ĩ	034.41			1		30.374	3	857.28			
49.693	ī	034.14					30.707	2	853.92			Tsi5
49.769	7	033.97			8318		31.394	4	853.19	1		
49.053	i	033.78			-31 0				851.67		S <sub>21</sub> 10	
137.155	• 1	033.10			i I	1	31.947	1	850.45	1		S31 8
40 022	٠, ١	033.60		i	[	1 .	,, ,,,	,	044	ł		
49.932 50.002	1	033.45			[		33.739	2	846.50	1	R <sub>2</sub> 15	R <sub>33</sub> 13
50.002	3	033.45			!!		34.402	2	845.04			R, 13
50.134	2	033.15				1	34.566	2	844.81	•		T314
50.215	5	032.96			l i		34.602		844.60	1		S <sub>11</sub> 7
30.613	,	032.70			[	1	35.134	2	843.43	i	1	5,17
50.274	5	032.83		l		١.	35 303		040 1			
50.274	4	032.56			l i		35.297	4	845.07	1	S <sub>21</sub> 9	
	5				· · · · · · · · · · · · · · · · · · ·		36.314	0	840.82		1	R <sub>32</sub> 12
50.453	5	032.42			1		36.773	0	839.81	1	Rg 14	
50.493		032.33	., ,, ]		į		36.958	1	839.41	1		R, 12
50.593	5	032.11	N <sub>13</sub> 12			1	37.626	4	837.93		}	E22 6
	٠, ١	031 64			1	1 .	1	. 1		}	1	
50.782	3	031.68			1		3876	1	836.72	1	. 1	5,, 6
50, R79	8	031.46					38.430	5	836.16	j	)	T,3
50.924	3	031.36			[		38.708	2	835.55	}	1	R <sub>32</sub> 11
51,039	6	031.12					19.097	3	834.70	1	S <sub>21</sub> 8	1
51.114	7	030.93			{	1 :	39.360	4	834.12	1	- 1	R, 11
	_ i		1			1	i			į	1	- 1
51.255	2	030.61			j		9.774	2	833.21	• •	R <sub>2</sub> 13	1
51.324	2	030.46	. 1		i		10.051	1	832.60		- 1	
51.385	2	030.32	Ť		l I		10.246	1	832.17	R. 15	}	
61,459	A	030.15			R.,13		10.332	2	831.98	- 1	Rn13	1
51.531	6	029.99	1	R <sub>2</sub> 15		] 4	10.473 ]	9	831.67	i		S,, 5
1					1	1	ĺ			<b>∣</b>	9	7/5-

X.	ı	v	C	assifica 4-1	lion	. 1	.1	٠ ٧	C	lassifica 4-1	tion
6740.988	5	14 830,53		[R <sub>32</sub> 10	S <sub>21</sub> 5	6754.304	0	14 801.30			Q <sub>32</sub> 12
41.616	3	829.15	Ĭ.	11-132-0	R, 10	54,605	14	300.64			-2
42.145	4	827.99	1	1.	T312	54.962	4	14 799.85			Ω, 12
42.624	lī	826.94	ł	R <sub>2</sub> 12	-34-	55.059	6	779.64		R <sub>2</sub> 7	! <b>~</b> .~
42.765	6	826.63	1	S <sub>21</sub> 7		55.264	2	799.19			Q <sub>12</sub> 11
			1		i				1		
43.043	6	826,01	ł	į	R329	55.595	9	794.47	ł i	P <sub>21</sub> 7	l
43.124	6	825.84	1	f	S <sub>32</sub> 4	55.927	8	797.74	[ '		$\Omega_3$ II
43.633	3	824.72	l	R2112	S <sub>31</sub> 4	56.065	1	797.44			Q3216
43.705	6	824.56	R <sub>1</sub> 14	1	R <sub>3</sub> 9	56.314	10	796.89	1 :	S <sub>21</sub> 3	C <sub>3x</sub> 3
44.959	١,	821.80	1	l	R326	56.459	1	796.57			l
45.351	3	820.94	l	R. 11		56.602	4	796.26	R, 10		
45.431	1	820.77	l		1 1	56.673	4	796.11	•		Ω329
45.566	9	820.47	l	ĺ	5,23	56.717	6	796.01	1		Q, ic
45.638	9	820.31		[T311	R, 8	56.918	3	795.57			Q <sub>32</sub> 4
45.700	3	819.74		R <sub>11</sub> 11		57,016	3	795.35			
46.072	6	010 14	[		اما	62 100	8	305 15	1	fo -	۔ ۔
46.194	ì	819.36 819.09	J		531 3	57.109 57.190	4	795.15 794.97		[Q <sub>12</sub> 8	Q <sub>3</sub> 3
46.329	4	818.79	1	6 4	, ,	57.285	5	794.77		R <sub>2</sub> 6	٠,
46.701	8	817,98		S216	0.7	57.348	9	794.63	!	(0.0	Q <sub>32</sub> 5
47.049	2	817,21	R, 13	Ì	R327	57.435	2	794.44		[Q <sub>3</sub> 9	Ω227 Ω246
t	_		1	Ì	1 1						
47.251	1	816.77		İ	R317	57.650	7	793.97	1		Q <sub>2</sub> 4
47.378	8	816.49	1 .	i	R, 7	57.728	7	793.80		R216	
47.810	8	815.54			S32 ?.	57.791	7	793.66			Ω, 8
47.949	2	815.24		R <sub>2</sub> 10	ا ہے!	57.982	10 10	793.24	]		Q <sub>3</sub> 5
48.261	0	814.55	ł	[S <sub>31</sub> 2	R,26	58.048	1.0	793.10			Ω, 7
48.504	2	814.02		R <sub>21</sub> 10		58.120	7	792.94			Q, 6
48.647	1	813.70		1		59.213	8	790.55	}	R <sub>2</sub> 5	Ω <sub>2</sub> 1
48,845	6	813,27			T,10	59.404	8	790.13		S <sub>21</sub> 2	_
48.945	,5	813.05			R, 6	59.510	1 8	789.90	ا ۾ ا		ļ
49.613	10	611.58			H325	59.645	0	789.60	R <sub>1</sub> 9		
49.766	9	811.25		S <sub>21</sub> 5		59.732	10	789.41		R215	
	10	811.13			S <sub>12</sub> 1	59.885	1	789.08	]	Ω 13	
50.147		810.41	l i		R315	60.692	3	787.31		Ω <sub>2</sub> 12	ļ
50.250	6	810.19			S <sub>21</sub> 1	61.107	3	786.40		R <sub>2</sub> 4	
50.323	9	810.03	R <sub>1</sub> 12		R <sub>3</sub> 5	61.347	1	785.88		Q <sub>23</sub> 12	
50.441	4	809.77	l	R <sub>2</sub> 9		61.624	9	785.27			1
50.772	7	809.04		AND 7	R324	61.871	1	784.73		R <sub>21</sub> 4	
50.990	6	808.56		R219	*****	62.030	7	784.39		0. 11	
51.166	2	808.18	ļ į		Ω, 15	42.285	i	783.83		Q <sub>2</sub> 11	P, 4
51.279	2	807.93			R314	62.373	9	783.63		5m1	-, •
51.387	ι, Ι	802 40				i i			[		
51.501	7	807.69 807.44			ايرا	62.609	6	783.12	R1 8		
	16	806,99	1	'	R, 4	62.696	2	787.93		Onli	
51.921	"	806.52			P.323	62.901	6	782.48		R <sub>2</sub> 3	
52.206	ž l	805.90			R313	63.402	10	781.71 781.39		Ø 10	
- 1		i				33.302	"	101.37	i i	R <sub>21</sub> 3	
52,424 52,489	6 8	805, 42			R,122	63.581	1	730.99		- 1	
	- 1	805.27			R, 3	63.687	1	780.76		1	
	1	805.G8 804.56		ا ہ	Ω <sub>3</sub> 14	63.846	3	780.42	Q <sub>2</sub> 15	Q <sub>21</sub> 10	
52.577	6	803.94		R <sub>2</sub> 8 S <sub>21</sub> 4		63.922 64.149	2	780.25 779.75		On 10	
52.814				-41 .	İ	"",""	_	177.13		ı	P <sub>3</sub> 5
52.814						1 (1 2 2 4 1	_				
52.814 53.097 53.192	,	803.73			Q32 3 3	64,350	9	779.31		Ω, 9	
52.814 53.097 53.192 53.297	1 5	803.50		, ,	C)33 3 3 R <sub>2</sub> 2	64.576	2	718.78		O <sub>2</sub> 9 R <sub>1</sub> 2	
52.814 53.097 53.192 53.297 53.355	1 5 5	803.50 803.25	וו פ	Rajo	O <sub>33</sub> ) 3 R <sub>2</sub> 2	64.576 64.901	2 5	7/8.78 778.11		R <sub>2</sub> Z	
52.814 53.097 53.192 53.297	1 5	803.50	R <sub>1</sub> 11	$R_{11}$ S	O <sub>33</sub> ) 3 R <sub>2</sub> 2	64.576	2	718.78		R <sub>2</sub> Z	

r		-	<del></del>	T	7								
Į	λ	I	l .	1 6	lassifica 4-1	tion		•				Classifica	tion
-		<del> </del>		<del> </del>	<del></del>		Ш	λ	I	_ "	-	4-1	
1	6765.179		14 777.50	l	S <sub>21</sub> 0	1	Ш	6776.189	10	14 753.49		P <sub>22</sub> 6	D. 71
1	65.331	10	.777.17	1	Q2 8	1		76.296	9	753.26	Q128	023	P <sub>2</sub> 7]
-	65.525 65:860	1	776.75	R, 7	ł	1	Ш	76.654		752,48	R <sub>1</sub> 3	- 2	1
1	65.799	14	776.15	l	1	2.4	11	76,786	1.4	752.19	1	P <sub>2</sub> 8	i
1	//	1	1	Į.	i	P, 6		76.870	10	752.01	Ω <sub>2</sub> 8	P237	1
-	65.878		775.98	I	Q <sub>31</sub> 8	1		77.267	5	751.15	1	1 2 2	1
1	65.951	3	775.82	Ω <sub>2</sub> 14		1	11	77.467	1	750.71	l	P <sub>2</sub> 9	l
1	65.006 66.189		775.70	l	Q <sub>D</sub> 8	[	ii	77.616	3	750.39	1	P. 10	[
1	66.607	9	775.30 774.39	!	Ω <sub>3</sub> 7	1	11	77.873	8	749.63		P, 11	I
1		1	,,,,,,	1	Riil	1	11	77.937	9	749.69	[P <sub>2</sub> 12	P239	P <sub>2</sub> 13]
1	66.732		774.11	1	Q <sub>21</sub> 7	1	11	78.191	2	749.13	I	ì	į
1	66.868	7	773.81	i	Ω,,7	I	П	78.285	6	748.93	I	P.10	1
1	66.934	6	773.67	i	Q2 6	I	H	78,428	105	748.62	Ω, 7	1 .71.0	1
1	67.244 67.378	7	772.99		1	P, 7	П	79.510	6	745,44	~, .	P2:11	1
1	01.110	1 1	772.70	ŀ	ł	1	li	78.603	5	748.24	1	P2312	Pp13]
1	67.469	4	772.50	l	Ω216	}	11	78.680	6	748.07	1		1 - 1
1	67.556	7	772.31		Ū₃ 5		Ш	79.333	7	746.65		O214	1
1	67.622	5	772,17		Qub		!!	77.425	6	746.45	R <sub>1</sub> Z Q <sub>12</sub> 6	I	
ł	67.828	1 5	771.72		i		Ш	79:963	10	745.28	Q 6	1	i i
1	67.949		771.45	Q <sub>2</sub> 13	Ì	1	Ш	80.913	9	743.21	Q125	1	i
	68.000	3	771.34		R,10	1	11	80.984	٠,	747.00	l	1	
1	68.079	8	771.17		Q <sub>21</sub> 5	Ω <sub>2</sub> 4]	Ш	81.443	10ъ	743.06 742.06	1 ~ .	O <sub>23</sub> 5	1
1	66.267	9	770.76		Ω235	17. "	H	81.604	1	741.71	Ω, 5		1
1	68.375	7	770.52	R <sub>1</sub> 6	1	I	11	81.965	9	740.93	R <sub>1</sub> 1	l	1
1	68.477	7	770.30		Ω <sub>2</sub> 3	P, 8	Ш	82.372	7	740.04	C124	1	[
1	68.591	5	770.05		Ω214	į į	]]	87 #00		914 4-		[ :	
1	68.803	7	769.59		Qu4	Q2 2]	11	82.690 83.178	10	738.92 738.29	Q <sub>1</sub> ÷	1	1
1	68.979	7	769.21	1	ດີມີລ	0, 1	11	83.540	0	737.50	D. 14	0256	
1	69.096	1	768.95				11	83.789	9	736.96	P <sub>12</sub> 16		
1	69.255	10	768.60		Q212	Ω23]	11	84.127	í	736.23	F1 16	i	
1	69.405	3	768, 28		Qnl		l	84.295	10Ь	776 64		1	'
1	69.521	7	768.03		. ~41*	2,9	H	84,433	106	735.85 735.56	Ω <sub>1</sub> 3	P <sub>12</sub> 15]	
ļ	69.656	8	767, 73	_	Qzs2			84.529	4	735.36	R, o	1	
1	69.876	5	767.25	D2 15	_			84.864	3	734.58	P <sub>1</sub> 15	]	
	70.182	10	766.58		Oni			85.007	2	734.32	P1214		1
1	70.277	1	766.38					85.380	6	732 0			
l	70.375	•	766.15	i		P, 10	1	85.277	10	733.94 733.73	Q <sub>13</sub> 2	1, ,	
l	71.053	.6	764.68	(		P, 11	1	85.440	i	733, 38		0237	
1	71.179	10	764.41 763.59	R, 5	Q1211]		1	85.591	4	733.05	Piz13	P, 14]	ł
	1	1	103.39		i	P <sub>2</sub> 12	1	85.563	10	732.90	Q <sub>1</sub> 2		i
	71.722	9	763.23	a, 11				86.120	4	731 00	D 12		i
l	71.891	3	762.86	1	.	P, 13		86.170	5	731.90	P <sub>13</sub> 12	1 1	i
	72.086	3	762.42	İ	P, 15	P, 14	1	26.564	9	730.94	P <sub>1</sub> 13 P <sub>11</sub> 11	Ωμ1]	
l	72.486	3	761.57	- 1	Pu2		ĺ	86.696	5	730.67	P <sub>1</sub> 12	~".,	į
l		.		1	P <sub>2</sub> 3		ł	86.826	1	730.37	•		1
Ī	72.945	2	760.56	0,10	1	1	1	86,979	10ъ	730.04	D. 10	ا را	1
	73.254	14	759.89		1	j	1	87.133	8	729.70	P <sub>12</sub> 10 P <sub>1</sub> 11	(3, 1)	i
	73.500	10	759.35 758.77	D, 10	Pu3	}	1	87.258	10	729.43	P129	O238	1
1	73.937	9	758.40	R, 4	P <sub>2</sub> 4	1	1	87.388	.1	729.15			- 1
				,	1	[		87.506	10	728.89	Pizs	P1 [0]	•
	74.482	9	757.21	_ !	Pu4	1	l	87.599	2	728.68	P <sub>1</sub> ,10	l	1
	74.658	7 10	756.83 755.64	Ω <sub>12</sub> 9	P, 5	- 1	l		10	728,47	P127	[	- 1
		10	755.25	013		1	•	87.803		728.24	P. 9		1
	75.485	2	755.02	I	Pu5	į.			10	728.13	P126	[	1
	1		i					01.700	165	727.89	Pizs	P139]	•
							<b></b> -	<del></del>					1

	I	v	Cla	esificat	tion	1	1		4-1	aunificati	04
				<b>7</b> -1						1	
6788.949	10	14 727,72	P, 8	P124]	l t	6505.801	5	14 689.30	7מא	ı	1
88.103		727.59	P <sub>12</sub> 3	P122	l ł	€7.041	1	646.62	1	H	ł
a8.1 <b>61</b>		727,47	P <sub>13</sub> 1	P138	}	99.324	2	663.86	Nus	Ħ	1
88.246	10	727.29	P, 7	10.01	!!	10.332	1	679.53		Ħ -	ŧ
88.395	,	726.96	P <sub>i</sub> 6	P <sub>13</sub> 7		10.579	1	678.99		li	l
88.499	10	726,74	P <sub>1</sub> 5	1		20.812	3	678.49	.4259	H	•
88.545	8	726.58	P.0.4	P,,6]	l i	12.061	1	677.95		il	l
88.609	16	726.50	F,1-3	Pu5		32.510	1	674.84	l	H	1
88.767	0	726.16	P134	- 13-3	1 }	12.778	ī	674.25	ł	11	5,29
68.8 <del>99</del>	2	725.87	Pu3		1	23.251	1	673.24	N,,10		
89.026	0	725.59	P <sub>13</sub> 2		}	14.586	,	670.36		H	•
89.143	g	725.34	- 1300	0239	1 1	15.191	ī	669.06	1	11	T,:5
90.552		722.29	Ont	, T.	1 1	15.647	ī	668,08	1	1)	1-35-
90.904	4	721.52	-14-	O210	i į	.6.268	0	265.74	ļ	H	512 8
91.852	,	719.47	0,,2	Oul		16.821	Đ	665.55		li	S,, &
92.540	6	717.98		0 11	]	17.968	1	663.00	į	]}	1
92.738	2	717.55	0.3	02911		1,	í	663.08	l	11	1
93. 0Z1	Z	716.94	0,,2	1		15.742	1	661.42	!	1	<b> </b>
93.135		716.69	N <sub>1</sub> ,2	1	1	19.408		659.99 659.82	l	11	T314
93.923		714.98	O <sub>12</sub> 3 O <sub>13</sub> 3		i i	19.587	3	659.60	1	l	5,2
04.05(			_						}	1	1
94.055	2	714.69		O2312	1 1	25.158	1	658.38	•	-521 7	Sı
94.397		713.95	0124	1	i i	22.718	2	652.88	ł	]]	3,2
94.766		713.16			1 - 1	25.256	1	651.72	İ	11	jS,, (
95.138	4	712.35	0,,4			23.515	2	651.11	į	()	T,,
95.448	3	711.68		O <sub>28</sub> 13		23.877	1	650.39	l	ti .	Ryal
35.549	6	711.48	71,,3			24.997	1	649.91	•	521 \$	ļ
95.637		711,27	0,25		1 3	Z4.361	2	649,35	1	11 -	1
96.353	7	709.72	0,35		1 1	24.541	2	648.97	<b>{</b>	11	H, I
96.721		708.92		0214	1	25.673	6	646.53	1	H .	S,2
96.849	9	708.65	0136		. ;	25.209	2	645.38	l	[R <sub>11</sub> 10	S,
97.547	4	707.14	0,,5			25.872	1	643.96	Ī	ll .	R, I
97.871	Z	706.43		02315	}	27,412	2	642.80	1	Ħ	T,12
98.025	10	706.10	0.27	- 1	! }	27. 997	3	641.76	1	S <sub>4</sub> 7	1
98.10 <del>9</del>	4	705.92	N: 4		ìì	24.354	3	640.79	1	)) -	R,25
98.713	5	704.61	0,7			21.428	3	640.62		11	532
98.832	,	704,25				₹1.546	,	640. 18	l	ll .	1
99.007	1	703.98		1		24.949	i	639.51	l	1	5,,4
49.159	í	703,65	0118		l İ	2=.640	3	639.32	1	()	R,
99.837	2	702.18	O, 6		I. I	3-3, 343	Įž.	636.52	I	11	2,,
6800.ZS1		701.29	0,,9	} :		34.619	ĩ	635.93		()	ļ`` <b>"</b>
00.368	,	701.03				31. 277	1	615,38	1	1	<b>.</b> .
00.687	7	700.34	N <sub>13</sub> 5		1	31.65	6	615.19	1	H	H.33
00.924	4	14 699.83	0,39	1	1 1	31.635	6	635.04	<b>!</b>	fr.	S18
01.076	ld	699.50	~137	i	i I	31_107	i	634.72	I	[T111	R, 1
01.285	6	699.05	0:10			31.363	i	634.34	1	ll .	l
01.957	14	L97.60				31.486	2	£24 0=	ļ	1	<u>.</u>
02.261	7	696.94	O <sub>13</sub> 10		l i	31 555	1	634.08 633.86	1	1 - 1	5,1 3
02.673	i	696.05	C13.1		!!	- 32.150	5	632.65	l	5216	b .
02.936	i	695.49	Ouli		1	32.272	l i	632.39	R, 13	]]	R,,27
03.085	3	695.16	- 0			32.705	ō	631.46	("'	II	R,:
03.170	,	694.98	0,,12		] }	32.844	3	631.17		1	Į
01.251		604.00	517.	!	.	35.270	5	630,21	ļ.	ij	R,
		693,16	0,213			33.456	í	629.79	}	!!	3,2
04.013								/-/			
04.013	2	691.51	01214	1	i	33.766	i 5	629.19	I	[R26	5,, 2

		7	1 6	lassifica	tion	<u> </u>	Ţ-	·		120141	
. λ	1	,		3-0	LLIDES	1	1		۲	lassifica 3-0	ROIL
6834.367	3	14 627.91	T	T	T310	6847,944	3	14 598.90	<del>                                     </del>	1011	<u> </u>
34,471	3	627.68	1	1	R, 6	48,206		598.34	l	Ö 11	1
35.162	9	626.21	i	8215	R125	46,334		598.07		841	1
35.380	8	625.74	1 .	-41-	S <sub>22</sub> 1	48.496		597.73	R, 8	1	ŧ
35.559	1	625.36	1	1	1	48.638		597.42	j	Q <sub>2</sub> 11	1.
35,646	1	625.17	R, 12		1	48.763	2	502.6	ŀ	1	1
35.716	1	625.02		1	1	49.191		597.16	Ì	R, 3	. Į
35.822	2	624.79	ł	ł	R <sub>44</sub> 5	49.285		596.25 596.04	1	Q 10	1
35.893	7	624.64	ł	R, 9	3 <sub>21</sub> 1 R <sub>2</sub> 5	49.756		595.04		Ray 3	1
36.365	4	623.63	1	1 "	Rard	49,876		594.79	Q <sub>1</sub> 15	0_10	1.
36,451	2	623,45	l	1	-		١.			-	ì
26,841	14	622,61	ì	R <sub>N</sub> 9	ln 4	50.123		594.26	1	ì	1
37.123	3	642.01	ì	1	R214	50.264 50.326		593.96			P3 5
37,345	i	621.53	1	į	R, 6	50.517		593_83		Q, 9	1.
37.505	1	621,19	Į	į	R223	50.891		593,42 592,63		R <sub>2</sub> 2 C <sub>21</sub> 9	1
37,820	1	620.63	1	1	1	<b>;                                    </b>	1			ŧ	1
38.079	3	620.52	ł	1	R313	51.ros	7	592.37		R212	Q219]
38.147	5	619,97	ł	l	R322	51,120		592.14		Sts 0	}
38,324	1	619.82	1	l	R, 3	51.229	1	591.90		-	1
38,596	3	619.44	t	R <sub>2</sub> 8	1	51.338		591.67	R <sub>1</sub> 7	Q 8	;
30,396	•	618.86		521 4	R <sub>33</sub> 2	51.896	2	590.48	Ω, 14	Q <sub>11</sub> 8	l
38,905	3	618,20	R, 11	Rus		52.000	2	590.26		C <sub>25</sub> 8	P, 6
38,988	1	618.0Z	i -	1 -	R, 2	52.145	0	589.95	i	R, 1	1 - 3 -
39.607	2	616.70		ł	0, 13	52.209	7	569.82		Ω <sub>2</sub> 7	l
39.973	1	615,92		ł	1	52.600	7	568.98		Rai	ł
40.655	3	614.46		R <sub>2</sub> 7		52.693	1	588.79			i
49.759	1	614,24		Í	Q, 12	52,771	3	588.62		~ 7	i
41,059	1	613,60		l	$\Omega_{2}$ , ii	52,913	4.	588.32		Du7	i
41.217	7	613.26		R217	1,233	52,575	انا	588.19	3	QuŢ	ł
41,738	4	612.15			Q 11	53.478	1 4 1	587.12	1	Q <sub>2</sub> စ်	İ.
41.851	1	611.91		1	"	53.527	Z	357.01		Dei 6	P <sub>3</sub> 7
41.926	7	611.74		S <sub>21</sub> 3	0.10	53.611	5	556 93	!	~ .	1
42.17	2 1	611.30	R, 10	-74-	Q <sub>32</sub> 10 Q <sub>32</sub> 3	53.624	3	566.83 586.68	- 1	Q, 5	i :
42.5	- 1	610.52		i	~12	53.786	lil	586.46		Q <sub>ts</sub> 6	
42.5	- 1	610.41		[C <sub>3</sub> 10	0,29	53.956	Ž	586.10	A 11		
42.740	1	609.99		3	Q <sub>12</sub> 4	54.044	ī	585.91	C <sub>2</sub> 13	Raso	
42 . 856	2	609.76		R, 6		54.155	.	505 67	[	_	
42.918	4	609.55	1	(Q, 3	O128	54.294	6	585.67 585.38	, , l	QuS	Q, 4]
	2	609.17	i	1~0 -	Q <sub>12</sub> 5	54.344	7 1	585.27	R, 6	0 4	
		609.00	1	[Q <sub>3</sub> 9	Q <sub>12</sub> 7	54.444	i	585.06	i	Q <sub>23</sub> 5	
43.293	1	603.83	ı		Coa6	54.547	2	585.84	)	C <sub>2</sub> 3	
	4	608.57	1	Rus		54.675	2	584.57	1	Q <sub>01</sub> 4	
	3	608.36	1	-	0,4	54.770	2	584.37	1	- الك	P, 8
	1	608.19	1			54.873	4	584.11	}	Qu4	•3•
	4	£08.04	ľ		2,8	54.991	il	583.90	1	-403°	
43.858	8	607,62	j		0,5	55.071	4	583.73	1	Ω213	
	•	607,47	1	į	Q, 7	55.358	,	583.12	ا ,, ,		_ ,,
	3 [	667.33	ł		0,6	55,506	íl	582.60	Ω:12	Dr3	C <sub>M</sub> 2]
	3	605.31	1	R, 5	~~	55.768	5	582.24	- 1	Cul	
	1	603.07	1	0, 13		55.651	3	582.07	i	C <sup>21</sup> S	P3 9
43.129	3	604.91	j	8.2		55.935	2	581.89	O, 12		-37
45 269	4	604.51	R, 1		1	56.309	9	581.09	1	٠.١	
	9	604.14		R <sub>M</sub> 5	1	56.745	2	580, 16	1	D <sub>20</sub> 1	<b></b> I
	i f	601.65	ł	D 12	11	56.947	i l	579.74	1	1	P, 10
							- 1	J174191	1		
44,929		661.69	1	Re a		57.361	, i	570 AG1	ì	:	1
44,929		601.09 14 399.97	į	Ra4		57.187	10	579.49	R, 5	į	į

<del></del>		<del>,</del>					,				
1	1		Cli	ssifica 3-0	tion	II	١.		C	lassificati	OB
	<u> </u>			.>-V		λ	l I	v	L	3-0	
6857.273	1	14 579.04	Q <sub>12</sub> 11	ł	1	6868.776	4	14 554.63	Q <sub>12</sub> 4		
57.454	3	578.66		ŀ	P, 11	69.316	10	553.48	Ω, 4	1 1	
57.589	1	578.37		l	ļ .	69.831	4	552.39		O <sub>22</sub> 6	
57.722	1	578.09		i	}	70.243	6	551.52	Ω123	-2-	
57.832	7	577.85	Q 11		1	70,382	1	551.23	~-	1	
1 1						[]	l		ļ	1 1	
57.977	1	577.55		1	i's 12	70.765	10	550.41	Ω, 3	ii	
58.343	3	576.77		ĺ	7, 13	70.879	[ 1	550,17	•	1 1	
58.557	1	576.31		i	i i	71.007		549.90	R, 9	i i	
58.697	7	576.02		P232	1	71,295	1	549.29	i -	1 1	
59.077	2	575.21	Q1210	ĺ		71.584	1	548.68	P <sub>1</sub> 15	1 1	
59.654	6	573.98	0.10		ļ					1 1	
59.759	10	573.76	Q <sub>1</sub> 10		!	71.682	3	548,47	Q <sub>13</sub> Z	l i	
59.913	ì	573.43		Pas3	Į l	71.809	7	548.20	ì	1 1	
60.038	6	573.17	R <sub>1</sub> 4			72.020		547.76		O <sub>29</sub> 7	
60.789	8	571.57	A) T	P234		72.175	7	547.60			
				2 23.2	<b>l</b> i	(*	′ ′	547.43	Ω, 2	1 1	
60.838	2	571.47	Q129			72.287	1	547.19	P., 13	10. 141	
61.002	ī	571.12		P <sub>2</sub> 5		72.803	l i	546.10	P <sub>13</sub> 13 P <sub>13</sub> 12	P <sub>1</sub> 14]	
	10	570.26	Q, 9	•		72.873	ż	545.95	P <sub>1</sub> 13	1	
61.587	1	569.88	•		1 1	73.095	Ž	545.48	Ωμί	i t	
61.730	10	569.57	1	P215	[	73.180	1	545.30	-12-	i 1	
l l		1	ļ	-	1	1				l i	
61.857	1	569.30		P, 6		73,256	3	545.14	P1111	1 1	
62.577	8	567.78	Q128	P216	P <sub>2</sub> 7	73.398	2	544.84	P, 12	l 1	
62.669	4	567.58		O <sub>23</sub> 3		73.544	10	544.53	$Q_1$ 1	1	
62.757	1	567.39				73.630	3	544,35	P1210		
62.849		567.20	R, 3			73.730	1	544.14		1	
62,984		566.91	1	ļ		72 922	5	ا ہے درے	n		
63.093	7	566.68	Q <sub>1</sub> 8			73.833 73.928	7	543,92	P <sub>1</sub> 11		
63.222	il	566.40	F1 0	P <sub>1</sub> 8		74.013	í	543,72 543,54	P129		
63.306	9	566.23	- 1	P,,7		74.096	3	543,36		0.	
63.731	3	565.33	l	P. 9	ļ <b>i</b>	74.182	6	543.18	P <sub>1</sub> 10	Ou8 Pu8]	
	1	- 1	- 1	- • •			1		.1.0	. 1101	
63.926	4	564.91	- 1	P238	!	74.276	2	542.98		1	
64.024	1	564.70	í			74.359	10	542.81	P137		
64.106	2	564.53		P2 10	ŀ	74.435	1	542.65		i	
64.162	4	564.41	Q <sub>12</sub> 7		1	74.501	10	542.51	P, 5	P126]	
64.251	1	564.22	I	1		74.606	10	542,28	P125		
44 243	,	(63.00		<u>,</u>	ļ	ا ہے ہے ا	١, ١			1	i
64.363	2	563.98 563.85	1	P <sub>2</sub> 11		74.676	6	542.14	P124	1	j
64.493	il	563.71	Ì	P239		74.723	10	542.04	P <sub>1</sub> d	P <sub>12</sub> 3	Ì
64.724	10	563.22	Ω, -	P <sub>2</sub> 12	ł	74.166	10	541.94	Puz	P12!]	
64.796	2	563.07	mt i	Pa 10	1	74.919	9	541.80 541.62	Q <sub>1</sub> 0 P <sub>1</sub> 7		
/	- 1	223,01	ļ		. 1	'*'7'7	'	541.04	F1 (	1	
64.893	1	562.86	ł	i	į	74.992	1	541.47	1		1
64.932	1	562.67	I	ŀ	i	75.061	6	541.32	P1 6	1	1
65.053	4	562.52	1	Pall	Ì	75.150	9	541.13	P. 5	P, 0]	
65.158	3	562.30	1	0114	i	75.241	10b	540.94	P <sub>1</sub> 1-4	-1 -1	
65.417	1	561.75	ì		[	76.056	4	539.22		0319	l
	. 1		ł	I	ł	]	_,		. 1		
65.505	3	561.56	, ,	1	J	77.244	6	536.71	0121	_	]
65.620 65.741	4 2	561.32 561.05	R, 2	1	1	77.893	2	535.34	!	On 10	
66.300	9	557.67	Ω <sub>13</sub> 6	j	İ	78.598	5	533.85	O12	Out	
67.281	61	551.80	Ω <sub>13</sub> 5	j	- 1	79.804	i	531.72	N	2311	
	-		**13~	į	l	'7.504	• 1	531.30	N <sub>13</sub> 2	1	1
67.411	1	557.52	ŀ	1	!	79,935	10	531.02	0,23	i	j
67.539	7	557.25	1	O <sub>25</sub> 5		80.062	ï	530.75	~12.	1	l l
67.672	1	444.97		- !	ļ	90,746	3	529.31	زرت ا	1	
	10	556.63	Ω <sub>1</sub> 5	1	1	81,203	1	528.34		0212	1
68, 349	6	555.53	2, 1	i	- 1	\$1.257	6	528.23	0124	-	- 1
		<u>l</u>	1			L1		l			1

λ	ı	y	Cla	seificati 3-0	ion	λ	r	,	Clia	seificat 6-4	ion
6882.018 82.438	2	14 526.62 525.73	Ou4 Nu3			7212.837 12.952	3	13 860.36 860.14		S <sub>21</sub> 9	R3212
82.554	10	525.49	0,25		1	13.676	i	858.75	1	1	R, 12
82.661	1	525.26		0213		15.611	4	855.03	t		8336
63.287	4	523.94	O <sub>13</sub> 5			15.887	2	854.50	}		R3211
83,820	7	522,82	0,26			16.210	lbd	853.88			5,16
84.547	1	521.29	0,,6		Į	16,434	0pq	853.45	1	Į	R <sub>31</sub> 11
85.053	9	520.22	0,27	N <sub>13</sub> 4]		16,620	4d	853,09	. 1	1	R, 11
85.196 85.758	2	519.92 518.73	0,,7		1	16.918 17.037	5	852.71 852.29	1	R <sub>2</sub> 13	T313
						!					
85.250	4	517.69	0128		i	17.289	2	851.81		S <sub>21</sub> 8	
86.954	1	516.21	0,,8			17,449	1 .	851.50		Ra113	
87.398	7	515.27	C129		i i	18.631	Z   8	849.23	1		Ragio
87.796 88.089	1	514.44 513.82	N <sub>13</sub> 5 O <sub>12</sub> 9		1	18.913	1	848.67 848.02	1		813 5 R3110
	3	512.97	-			Į į	l	ŀ			
88.492 89.523	4	710.80	O <sub>12</sub> 10			19.377	3	847.80 847.55			R, 10
90.220	3	509.33	C <sub>13</sub> 11		1 1	20.317	6	846.C0	1	R <sub>3</sub> 12	5,15
93.480	3	508.78	01212	N <sub>13</sub> 6]	! !	21.036	3	844.62		W3 10	m. >
91.202	00	507.26	01312	1,1701		21.179	5	844.35			T312 R339
91,388	2	506.87	0,13		}	21.583	5	843.57		8 <sub>21</sub> 7	
92,953	īa	503,58	011.0			21.709	Ιĭ	843.33		om.	I
93.128	3	503,21	Nu7		1	21.807	li	843.14			R319
95.766	i	14 497.66	N <sub>13</sub> 8			21.927	6	842.92	1 1		R, 9
98.347	2	492.24	N <sub>13</sub> 9		1	21,901	6	842.81			S <sub>32</sub> 4
6901.930	1	484.71			1	22.563	2	341.69			831 4
C2.905	i	482.67			}	23.508	4	839.38			R <sub>11</sub> 8
021,02	1				1	23.526	2	839.66	1 1	R: 11	
	L	L			L	24.258	اة	838,45	1 1	ñaill	R, S
						24,642	14	837.71			
					1	24.801	9	837.46			5,, 3
					i	24.914	i	837.19	1		l "
Gap is	n the	measuremen	ate which	n contain	e the	24.972	6	837.08	}		T311
following !	bands	. The listly	g is for	the Pil	line	25.102	1	836,83	i i		} -•
which coir	icide	with the mo	et prom	inent he	ad.	25.192	1	836.66			
አ	I	v	band		İ	25,290	2	836.47	R <sub>1</sub> 13		
	_					25,365	4	836.32	1		8,13
6957.72	2	14 368.56	9-7		Į	25.618	8	835.84		ابيا	R327
7059.48, 7164.63	2	14 161.45	6-6 7-5			25,726	3	835.63 834.65		S <sub>21</sub> 6	p. 7
	-				1	)					R <sub>31</sub> 7
					- 1	26,383	8 2	834.38 833.59	<b>!</b>	D 10	R <sub>1</sub> 7
					- 1	27.357	6	632.51	1	R <sub>2</sub> 10	
			Cli	assilicat	ion	27.412	2	832.41	1	R <sub>21</sub> 10	8342
λ	1	v		6.4		27,502	6	832.23		*******	R326
7203.430	14	13 878.36		S <sub>21</sub> 11	1	27,890	3	831.47			5112
04.375	3	876,64	l		5,,9	28,127	0	831.04	)		R316
07.523	2	370, 38			Tyrs	28,276	5	830.75	1		R, 6
08.330	2	869.02	)	l	3,18	28,578	5	830,18	ì i	Ì	Taio
09.421	14	866.92			-	28.685	Ž	849.97			Ω, 1!
1	1	266.18			R1213	29.145	9	829.09			R,125
09.810				•	10. 13	29.245	l i	228.90	R, 13	3	•
10,539	2	264,77	l	j	1 4/3 4-2 1				1 4/1 4 4	1	1
10,539 12,082	6	£51,81			R <sub>3</sub> 13	29,358	0	828.68	***	Q <sub>2</sub> 17	
10,539					E <sub>12</sub> 7 T <sub>31</sub> 4 S <sub>31</sub> 7					Ω <sub>2</sub> 17	8,,1

).	1		C1	esificat	ios	Π	<b>λ</b>	1	v	С	lassificai 6-4	iion
7229.718 29.796 29.870 29.939	7 4 1 9	13 827.99 827.84 827.70 827.57		-8 <sub>21</sub> 5 R <sub>2</sub> 7	R <sub>31</sub> 5		7238.404 34.489 38.536 38.611	1 10 10 2	13 811.40 811.24 811.15 811.01		R <sub>11</sub> 6 [Q <sub>1</sub> 6 Q <sub>1</sub> 13	Ω, 5
30.149 30.255 30.404	5 14 5	827.21 826.97 826.66		R219	S <sub>91</sub> 1		40.131 40.279 40.465	6 7	808.11 807.82 807.47	R <sub>1</sub> 9	R <sub>2</sub> 5	
30.530 30.578 30.843	6 I lbd	826.44 826.35 825.84 825.32			R <sub>52</sub> 4 Q <sub>5</sub> 14		40.553 40.673 40.777	2 1 6	807.30 807.07 806.87		Ω <sub>2</sub> 12 β <sub>21</sub> 2	
31,360 31,512 31,660 31,895	5 1 9	824,85 824,56 824,28 823,83		<u>ن</u> 16	R <sub>01</sub> 4 R <sub>1</sub> 4 Q <sub>12</sub> 13 R <sub>12</sub> 3		40.874 41.020 41.667 41.987 42.206	. 1 2 1bd	806.69 806.41 805.18 804.57 804.15		R <sub>61</sub> 5	
32.238 32.307 32.405	1 5 1	823.18 823.04 622.66			R <sub>31</sub> 3 Q; 13		42,306 42,451 42,527	7 1 2	803.96 803.68 803.54		Q <sub>6</sub> 11 R <sub>8</sub> 4	
32.442 32.532 32.643 33.091	3 3 5	822.71 022.61 622.40 621.55	St4 11	[R <sub>M</sub> 2 R <sub>2</sub> 8 [R <sub>31</sub> 2	R <sub>2</sub> 3		42.790 42.934 43.055 43.105	15d 2 2 9	802.53 802.44		Ω <sub>11</sub> 11 Ω <sub>11</sub> 11 R <sub>11</sub> 4	
33,264 33,505 33,55?	3 5	821.22 820.75 820.65		R <sub>21</sub> 8 S <sub>21</sub> 4	R <sub>2</sub> 2		43.281 43.413 43.474	id 2 3	802.10 801.85 801.73			P3 4
33,709 33,825 34,298 34,412 34.095	1 3 1 1 1bd	820,36 820,14 819,24 819,02 818,48		Q <sub>2</sub> 15	Ω <sub>8</sub> 12 Ω <sub>12</sub> 11		43.549 43.656 43.773 43.657 43.915	1 1 5	801.59 801.39 801.16 801.00 600,89	O <sub>3</sub> 15	Ω <sub>ε</sub> 10	
35.150 35.258 35.340 35.533	8 1 5	817.61 817.41 817.25 816.63		R <sub>2</sub> 7	Ω <sub>2</sub> 11 Ω <sub>32</sub> 10		44.005 44.090 44.147 44.546	6 1 8 1	800.72 800.56 800.45 15 799.69	R <sub>i</sub> S	En I	
35.954 35.170 36.268 36.428	9 1 5 2	816.08 815.66 015.48 815.17		R <sub>M</sub> 7	Q <sub>3</sub> 10 Q <sub>32</sub> 9		44.618 44.672 44.913 45.042	1 1 1	799.55 799.45 798.99 798.75		Rg 3 Qgs10	
36.531 36.755 36.829	1 5	814.97 814.55 814.43	R <sub>2</sub> 10	( <sub>3</sub> 14	Ω <sub>23</sub> 3		45.139 45.190 45.295	1 13	798.56 793.47 798.27		Rq3	
36.959 37.114 37.175 37.247	1 2 9 9	814.16 813.56 813.74 813.61		8 <sub>34</sub> 3	ည <sub>ာ</sub> 8 ည <sub>9</sub> 9		45.369 45.824 45.929 46.054	1d 4	798.12 797.14 796.94 796.82		Cu 9 Cus	P3 5
37.398 37.477 37.553 37.765 57.749	2139.0	813.32 813.17 813.02 812.73 812.65		ا اندان	Ω <sub>23</sub> 4 Ω <sub>43</sub> 7 C <sub>5</sub> 3 Ω <sub>45</sub> 5		46.129 46.233 45.559 46.666 47.119	5 0 2 5 8	796.68 796.48 795.78 795.66 794.79	Ω <sub>L</sub> 14	Cos Cos Rua	P, 6
37.867 37.995 38.120 36.232	9 1 1 5	612.43 812.18 811.94 811.73	•	R <sub>2</sub> 6	Q <sub>3</sub> 8		47.302 47.447 47.691 47.808	4 9 1 8	794.44 794.17 793.70 793.48	[8 <sub>21</sub> 6 R <sub>1</sub> 7	Ω <sub>21</sub> 8 Ω <sub>23</sub> 8	
38,320	9	111.56			0,4 0,7		48.104	õ	772.92	O1213	Ω, 7	

,	ı	·	CI	assifica: 6-4	tion	\ \ \	1	Γ	C	lascat	tica
λ	<u>                                     </u>			0-3	,	<u> </u>	<u> </u>	· ·	ļ	-4	
7248.285	1	13 792.57	•	į	1	7256.687	1	13 776.60	<u> </u>	P. 4	1
48.424	7	792.31	1	Ω217	R <sub>2</sub> 1]	57.130	154	775.76	ĺ	1 - :	1
45.533	1	792.10	į		1	57.314	9	775.41	Q139	R, 4]	3
48.587	9	792.00	l	Q237	P, 7	57.449	1	775.16	_	1	•
48.668	1	791.85	1		1	57.516	9	775.03	l	P239	1
40	6	701 77	١.,	l	1	57.606				1	ł
48.727		791.73	Q <sub>1</sub> 13		1 .	57.606	2	774.86	ł	P3 5	•
48.797	5	791.60 791.41	ł	Ω, 6	}	57.878		774.34		P2 16	}
48.894	3		}	Rail	1	57.931	105	774.24	Ω, 9	1 .	i
49.292	1	790.66 790.44	i	1 ~ .		58.093	1	773.93	j	1	١.
49.406	•	170.33	l	Care.		58,189	1	773.75	1	1	ł
49.507	1	790.25	Ì	ł	1	58.287	:	773.57	i		
,49.581	6	790.11	ł	Q216	ł	58,154	6	773,44	1	1	
49.638	7	790.00	t	Q2 5	[	58.406	105	773.34	1	P245	P, 6]
49.738	i	789.81	ŀ			58.795	1	772.60	1	1 - 74-	
49.821	3	769.65	l	ļ.	P, 8	59.023	5	772.17	l	P. 7	l .
1	_			1	1 -			į ·	i	1	ĺ
50.234	7	788.86	1	Q <sub>21</sub> 5	1	59.106	2	772.01	l	Pa 14	I
\$0.331	2	788.68	l	Q2 4		59.172	9	771.69	!	Pz <sub>2</sub> 6	i
50.440	9	788.47	l	Ω235	R210]	59.270	1	771.70	١	1	l
50.734	1	767.91	_ ,	1	l	59.364	3	771.52	$\Omega_{LL}$ 8	1 .	} .
50.812	9	787.77	R <sub>i</sub> 6	l	F, 9	59.440	1	771.38		1	ł
50.910	4	787.58	i	Q214	Q <sub>2</sub> 3]	59.510	3	771.25		P, 8	1
51.047	i	787.32		~	7, 7	59.582	3	771.11	1	P. 13	i
51.166	a l	787.09	Ω <sub>1</sub> 12	Ωμ4	1	59.653	5	770.97		O <sub>23</sub> 3	1
51.265	ĭ	766.91	~,	G, 2	!	59,737	2	770.82	•	023	ł .
51.354	i	786,73		-,-	1	59.785	10	770.72	1	Pn7	1
f					1 1						!
51.437	6	786.58		Q113		59.829	9	770.64		P2 9	•
51.547	4	786.37		$\Omega_{2}$ 1	P, 10	59.915	1	770.48		P <sub>3</sub> 12	ł
51.620	1	786.23		1	1	59.987	10	770.34	Q <sub>2</sub> 8		l
51.696	10	786.09		١,,	1 1	60.030	4	710.26		P2 10	P <sub>2</sub> 11]
51.752	10	785.98		Q23		60.154	1	770.12	l	1 1	1
51.811	2	785.87		Q212		60.188	1	769.96	ĺ	1	
51.914	1	785.67				60.272	7	769.80		T <sub>a</sub> ,z	į ,
52.026	2	785.46		Q <sub>21</sub> 1		60.384	1	769.59			
52.077	6	785.36			P, 11	60.460	9	769.44	R, 3		1
52.169	1	785.15		] `		60.533	1	769.30	•		
l		204 00				60.540		7/2 24			
52.273	6	784,99		Q <sub>22</sub> 2	l 5	60.588	9	769.20	}	P29	l
52.381	2 2	784.78		[P <sub>9</sub> 14	P, 12	60.678	1	769.03	} .	1	
52.488		784.58			P <sub>3</sub> 13	60.756	8	768.88		P2310	Pm11]
52.705 52.861	1 2	784.17 783.87				61.278	1 1	768.31 767.89			l
72.001	- 1			į		1	*	101.09			i i
	10	783.78	Q <sub>13</sub> 11		Ωນໂ	61.335	8	767.78	Quat		l
53.030	1	783.55	-	l. I	~	61.903	5	766.71			ŀ
53.484	1	782,69	1			61.946	105	765.63	Q <sub>1</sub> 7	1	
53.533	9	782.59	Q, 11		{	62.097	1	766.34		1	l
54.055	1	781.60				62.218	5	766.11		O <sub>M</sub> 4	l
54.104	. ,	761.51	·			62.382		745 60		İ	I
55.061	ia	779.69	R <sub>1</sub> S		}	62.970	1	765.80 764.69		!!!	l
55.157	24	779.51	Ω1210			63.118	i	764,40			l
55.268	id	779,30	7413.0			63.227	5	764.20	0.4	į į	l
55.433	B	778.93		Pp2	1	63.539	6	763.61	Cust R <sub>1</sub> 2		1
- 1	. 1			_		1 1	7				
55.515	2	778.83				63.683	į	763.33			
55.638	1	778.60	ا ا	P <sub>k</sub> 3		63.785	3	763.14		1	l
55.779	8	778.33	Ω <sub>1</sub> 10			63.835		763.05	Q <sub>i</sub> 6		l
56.464	2	777.03			: 1	64.138	. 1	762.47		. 1	l
	105	776,94		Pa3	•	64.394	Ibal	761.99			

1	1	•	Clas	sification 6-4		λ	I		CI	assifica 6-4	tion
7264.679 64 308	0	13 761.45 761.20		O <sub>23</sub> 5		7272.598 72.657	1 9	13 746,46 746,35	Pu6	P118]	
64.925 64.997 65.046	1 7	760.98 760.85 750.75	Ω <sub>12</sub> 5		. ]	72.798 72.900 72.951	10 10 10b	746,09 745.89 745.80	P <sub>1</sub> 7 P <sub>10</sub> 5		
65.481 65.640 65.991	1 105 1d	759.93 759.63 758.96	Q <sub>2</sub> S		·	73.036 73.090 73.143	1 2 10b	745.64 745.53 745.43	PuT Pu4	O <sub>25</sub> 9	
66.364 66.543	i	758.26 757.92	P <sub>13</sub> 15 R <sub>1</sub> 1			73.213 73.261	1 10	745.30 745.21	P <sub>1</sub> 6	- 23 -	
66.669 66.794 66.898	17	757.68 757.44 757.25	Ω124	0.4		73.311 73.367 73.420	10b 1 8	745.11 745.01 744.91	Pu3	P <sub>13</sub> 6]	
67.025 67.253 67.354		757.04 755.57 756.33	P <sub>1</sub> 15	O <sub>21</sub> 6		73.494 73.533 73.615		744.77 744.70 744.54	Pul Pi5 Qi0		
67.593 68.119 68.275	1d	756.10 754.93 754.64	P <sub>11</sub> 14 P <sub>1</sub> 14			73.679 73.734 73.820	1 8 2	744.42 744.32 744.15	P <sub>1</sub> 4	P <sub>13</sub> 5]	
68.437 62.485		754.33 754.24	Q <sub>18</sub> 3	P <sub>11</sub> 13]		73.879 73.975	1 <i>0</i> b	744.04 743.86	P <sub>1</sub> 3	P <sub>13</sub> 4]	
68.714 69.056 69.108 69.195	7	753.81 753.16 753.06 752.90	Q <sub>1</sub> 3 P <sub>1</sub> 13	0,17		74.155 74.880 75.559 76.058	1 3 2 1	743.52 742.15 740.87 739.93	P <sub>19</sub> 3	O <sub>23</sub> 10	
69.369 69.441 69.582	2 2 1d	752.57 752.43 752.17	PialZ R <sub>1</sub> 0			76.198 76.473 77.085	9	739.06 739.14 737.99	Oul	O <sub>28</sub> 11	
69.861 69.999	4	751.64 751.38	P <sub>1</sub> 12	,		77.433 77.605	1d 7	737.33 737.01	O <sub>13</sub> 2		
70.135 70.513 70.620 70.664	1 1 9	751.12 750.49 750.20 750.12	Cl S	P <sub>12</sub> 11]		77.900 78.608 78.922 78.973		736.45 735.11 734.52 734.42	O <sub>13</sub> 2 N <sub>13</sub> 2 O <sub>13</sub> 3	O <sub>23</sub> 12	
70.729 70.777 70.827	7 6	750.00 749.91 749.81	P <sub>1</sub> 11 P <sub>13</sub> 10		-	. 79.164 79.732 79.863	1 5	734.06 732.99 732.74	0.1	O <sub>23</sub> 13	
71.246 71.404 71.456	6 10 9	749.02 748.72 748.62	Pu9 Pi 10	O23-8		80.287 80.260 81.122	10 1 3	731.95 730.86 730.37	O <sub>11</sub> 3 O <sub>12</sub> 4 O <sub>13</sub> 4		
71.544 71.632 71.709	1 1 5	748.45 748.29 748.14	P <sub>11</sub> 10 Q <sub>12</sub> 1			81.224 81.534 81.509	0 1 3	730.18 729.97 729.64		O <sub>25</sub> 15	
71.781 71.849 71.966	1	748.01 747.88 747.17				81.558 81.655	3	729.55 729.37	Ou5 Nu3		
71.977 72.035 72.113	1 9 1	747.64 747.53 747.3#	P <sub>L</sub> S	7.03		82.253 82.365 82.770 83.515	5 5	728.24 728.03 727.26 726.24	Ou5 Ou6		
72.195 72.260 72.316	10	747.23 747.10 747.00	Ω, 1 Ρμ7	P119]		83.560 83.855 83.917	2 1 106	725.77 725.22 725.10	O <sub>11</sub> 6		
72.413 72.477 72.525	1 2 8	746.81 746.69 746.60	P <sub>1</sub> 8			84.445 94.595 84.697	2 1d 4	724.11 723.82 723.63	Оµ7 Nµ4 Оµ7		

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*	1	•	Class 6-4	ification 5-3	l l	1		Cı	45sifica 5-3	tion
7284.881	1	13 723.29			7327.064	3	13 644, 28			R3211
84.998	6	723.06	O <sub>12</sub> 8		27.356	1	643.73	1 1		5, 6
85.748	Ž	721.65			27.716 27.832	1 2	643.06	1 1		R <sub>11</sub> 11
85.880	] ī	727.40	Ous		27.967	:	642.85 642.60	1. 1	R <sub>2</sub> 13	R, 11 T <sub>31</sub> 3
			1 1		i	1	}	1 1	Ag 13	-112
86.003 86.766	2	721.17	O <sub>12</sub> 9		28.041	1	642.46	R, 15	ı	1
86.925	4	719.74	Op9		28.185 28.307	Id 3	642.19			ì
87.087	li	719.13	O <sub>12</sub> 10		28.591	li	641.96 641.43	][	S <sub>21</sub> 8 R <sub>21</sub> 13	Ì
87.209	4	718.90	N <sub>13</sub> 5		29.922	3	638.96		W3113	R,210
87.690	1,	710 00	اما			l.,		1 1		ì
87.755	1 6	718.00 717.87	O <sub>13</sub> 10 O <sub>13</sub> 11	• • •	30.178 30.555	10	638.48 637.78	1 1		5325
88.245	lī	716.95	,		30.693	3	637.52	1		R <sub>31</sub> 10
88.502	3	716.47	0,212 0,11		30,788	14	637.35	1		R, 10 8 <sub>11</sub> 5
89.035	į 2	715.46			31.124	i	636.72	i i		1 -,,,
89.134	3	715.28	01213 01214	3 1 1	31.530	,	416.02	i i		Į
89.936	2	713.77	N <sub>13</sub> 6	1 1	32.189	iba	635.97	1 1	R <sub>2</sub> 12 R <sub>21</sub> 12	1
90.171	1	713.33		1 1 1	32.377	1 5	634.39	R, 14	WHIL	TuZ
90.545	1	712.62	i 1		32.567	6	634.04	- 7 - 7		R <sub>32</sub> 9
91.253	1	711.29	1 1		32.660	ì	633.87	1		7
92.625	4	708.71	Nu7		32,778	6	633,65		0 7	
92.896	164	708.20			33.230	i	632.81		8 <sub>21</sub> 7	R <sub>91</sub> 9
93,198	lbd	707.64	1		33,358	10ъ	632,57	1	[P. 9	S <sub>32</sub> 4
94.677	1	704.86		1 1 1	33.472	0	632.36	1		Ω, 18
95.259	1	703.76	Nus	1 1 1	33.975	3	631.42			5,14
97.679		13 699.22			34.986		629.54		R <sub>2</sub> 11	R318
97.831	3	698.93	N <sub>13</sub> 9		35.347	1	628.87		,	-510
7300.321	1	694.26	N <sub>13</sub> 10		35.628	4	628.35	1	R <sub>21</sub> 11	R318
00.528 00.736	2	693.87 693.48	1		35,774 35,988	5	628.08 627.68	i		R, 8
		2,2,10			33,700	•	021,00	1		Ω, 17
01.482	1	692.08	1	S <sub>32</sub> 12	36.258	2	627.18			
02.625 02.742	1	689.94			36,314	109	627.08	1		832 3
03.669	2	689.72 687.98	N <sub>13</sub> 11		36.402 36.488	9	626.91			
06,201	2	683.24	1	5), 11	36.595	2	626.75 626.55	R <sub>1</sub> 13		T311
								,		1 1
07.866 10.710	1	680.12		T317	36.898		625.99			5,, 3
13.229	14	674.80 670.09	ĺ	S <sub>22</sub> 10	37.007 37.090	1d	625.79 625.63	1		1 1
13.965	ba:	668.72	1 '	821 1 1 T316	37.188	10	625.45	1	8 <sub>21</sub> 6	R <sub>32</sub> 7
14.427	14	667.85	1 1	R, 15	37.525	i	624.83	1		" <sup>33</sup> "
. 15,038	4	666.71			17 033	I . I	,,,,,	1		
18,385	3	660.45	1 1	S <sub>32</sub> 9 T <sub>31</sub> 5	37.832 37.980	10	624.26 623.98	ŀ		R317
18.908	1	659.46	1 '	82, 10	38.267	2	623.45	1	Ra 10	R <sub>3</sub> 7
19.153	3	659.02		8,28	38,335	ī	623.32	I	Mg . V	Ω 16
20.762	2	656.02	1	R3113	38.918	3	622,24	4	Ralo	
21.514	2	654.62	1 1	R, 13	38.988	9	622.11	- 1	İ	٠.,
23.056	8	651.75	1 1	S <sub>32</sub> 7	39.148	s l	621.81	į		832 2 R426
23.146	1	651.58	1 1		39,543	4	621.08	Í		8,12
23.318	2 6	651.26 650.57	1 1	T314	39.768	lbd	620.66	į	[Q <sub>12</sub> 15	R316
25,501	ľ	030.37	1 .	621 9	39.955	8	620.32	i	į	R, 6
23.995	14	650.00	Í	R112	40.115	1	620.02	- 1		
24.770	2	648.55	1 1	R <sub>3</sub> 12	40,259	8	619.75	1		T310
24.837 26.730	6	648.43	1 1		40.488	3	619.33	[		Ω, 15
26.891	13	644,60	1 1	512 6	40.700 40.608	3 .	618.93	R <sub>1</sub> 12		i
		011,00	1.		43, EU0	- 1	618.73	1		l i

λ	1	,	Cla	seifica 5-3	tion	λ	1	,	C	assificat 5-3	tion
7340.856	10Ъ	13 618,64			R <sub>32</sub> 5	7349,398	1	13 60Z. 81			
41.114	i	618.16			1,325	49.489	4	60Z.65	1		Q <sub>2</sub>
41.198	Ιi	618.61	1 1		, ,	49.565	i	60Z.51	j j		-25-
41.245	110	617.92	1	S21 5	1 1	49.653	1 7	602.34	1		C <sub>32</sub> 7
41.377	іоь	617.68	1 1	R <sub>2</sub> 9		49.727	Ż	602:21		ł	L-32,
	1	1	i i		1 1	j	1				}
41.497	1 !	617.45		i	R <sub>M</sub> 5	49.795	10	602.08	}	R, 6	Q, 3
41.568	1.1	617.32			1 1	49.850	9	601.98	Ì	[2326	Q <sub>32</sub> 5
41.683	10	617.11			R <sub>3</sub> 5	49.977 50.208	l i	601.74			Ω, 8
41.877	7	616,90	l		S <sub>31</sub> 1	50.349	8	601.06			0.4
	1					1	"	1	l i		127
41.958	1	615.60			1 1	50.416	10	600.93		R <sub>21</sub> 6	1
42.026	7	616,47	l i	R219	1 1	50.459	10	600.85	1		Ω, 7
42.155	1	616.23			1 !	50.545	1	600.69			1
42.306	9	615.95	1		R324	50.622	10	600.55	l i		Q, 5
42.460	2	615.67			Q <sub>3</sub> 14	50.683	10	600.44		Q <sub>2</sub> 13	Q 6
42.914	],	614.83		l	B.4	50.887	Ibd	600.06			ì
43.104	li	614.48		l	R <sub>31</sub> 4	51.305	0	13599.29		Ω2113	i
43.164	8	614,36		1	R, &	51.451	lŏ	599.02	[	Q2113	l
43.272	Ĭ	614.16	1		1	52.272	9	597.50		R <sub>2</sub> 5	1
43.366	l i	615.99	1		i i	52.332	10	597.39	R, 9	1(1)	ĺ
	1			•	1 1	1 :	l		,		l
43.431	2	613.87			Q <sub>32</sub> 13	52.562	1	596.96			İ
43.486	10Ъ	613,77			R <sub>32</sub> 3	52.661	4	596.78		Q2 12	į
44.066	2	612.69			R313	52.765	8	596.59		S212	l .
44.235	7	612.38		١	Ω, 13	52.837	3	596.45			}
44.334	6	612.19		R <sub>2</sub> 8	1 1	52.893	10Ь	596.35		R215	ł
44.391	10ъ	612.09			R <sub>3</sub> 3	53.269	1,	595.65		Ω112	ļ
44.554	lbd	611.79			1	53.435	ا م	695,35		C12312	İ
44.677	6	611.55	R, 11		1 1	54.281	Iba	693.78	l i	H2312	į
44.823	ì	611.29	3.0		1 1	54.410	i	693.54	1		ì
44.981	6	611.00		R218	R,22	54.485	9	693.41		Q <sub>2</sub> 11	ļ
46 102	١.	(10.27		}	1 1	54.553	١.				}
45.103 45.243	7.	610.77			1 1	54.552	1 1	693.28			i
45.404	5	610.51 610.21		S <sub>21,</sub> 4	1	54.610	3	693.17		R <sub>2</sub> 4	
45.805	5	609.47		ŀ	R, 2	54.990 55.142	2	692.47	Q <sub>12</sub> 15		ł
46.214	3	608.71			Ω, 12	55.212	10	692.19 692.06		Quili	l
į	1				i 1	1	1 1	0,2.00		R <sub>21</sub> 4	l
46.409	2	608.35			Q <sub>32</sub> 11	55,257	6	691.98		Q <sub>23</sub> 11	l
46.998	l	607.26		l	1 1	55.379	1	691.75		_	l
47,165	105.	606.95		R <sub>2</sub> 7	Q, 11	55.516	1.	691.50			l
47.378	14	606.55		l	1 1	55,626	4	291.30	Ω, 15		í
47.558	Z	606.22			Q <sub>32</sub> 10	55.762	2	691.05			P, 4
47,777	10	605.85		R217	1 1	55.891	1	690,81			l
47,945	ľĭ	605.51				56.003	á	690.60	0		l
48,101	li	605.22			{ I	56.078	i	690.46	R1 8		l
48,216	l i	605.00		l	i 1	56.148	7	590.33		0.10	ı
48.336	8	604.78		l	Ω, 10	56.221	i	590.20		Ω <sub>2</sub> 10	
	١.	1		1		1					1
48.427 48.497	1 6	604.61 604.48			أمما	56,283 56,581	10	590.08		S21 1	l
48.557	6	604.37	R <sub>1</sub> 10	1	D329	56,791	7	589.53 589.14		, ,	٠
48.755	1	604.01	1/1 10		. i	56.916	ż	588.91		R <sub>2</sub> 3	Q <sub>11</sub> 10]
48,884	4	603.77		1	Ω,,3	57.155	ī	588.47		Ω <sub>23</sub> 10	l
	1			]							l
						57.253	1 1	583.29			
48,964	l 2	603.62		!	1		1 - 1				}
48.964 49.032	2	603.49		q 2		57.327	2	588.16			
48.964 49.032 49.083	2 10b	603.49 603.40		S <sub>21</sub> 3	08	57.327 57.378	10b	588.16 588.06		R <sub>21</sub> 3	
48.964 49.032	2	603.49		S <sub>21</sub> 3	Ω318 C3 9	57.327		588.16		R <sub>zi</sub> 3	

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		I	,	Cla	esificat	ion	ī	1	,	Cla	seificati 5-3	on
			ļ			ri	7364,171		·		7-3	
1	7357.649 57.749	10	13 587.56 587.38		Ω <sub>6</sub> 9		64.226	2 10	13 575.53 575.43		Ω <sub>25</sub> 3	
1	57.837	6	587.21	l i		P, 5	64,290	8	575.31		Ω <sub>21</sub> 2	P, 10
7	58.124	14	586.68			1	64.415	1	575.08			P, 16
İ	58.292	6	586.37		Q219		64.502	3	574.92		Ω <sub>21</sub> 1	1
١	£0.333	! .	656 33			. !		١.				
1	58.377 58.422	7	566.22 586.13	Q <sub>1</sub> 14	0.0	} }	64.605	1	574.73 574.56			
1	58.571	li	585.86	M1 14	Q <sub>21</sub> 9		64.736	9	574.49		, Q <sub>22</sub> 2	
ı	58.835	Ž	585.37		E <sub>2</sub> Z	<b>!</b>	64.858	Ιź	574.26		. ~,0~	P <sub>3</sub> 11
١	58.923	1	585.21	i l	-	1 1	64.939	2	574.11			Ps 15
ı	en 000	7	ene on				65 077	١.	477 06			
ł	58.988	lbd	585.09 584.71		Q <sub>3</sub> 8	<b>!</b>	65.077 65.195	1 4	573.86 573.64			
1	59.191 59:337	i	584.44			1	65.241	13	573.55			P, 12 P, 14
١	59.392	9	584.34		R <sub>81</sub> 2	1	65,314	5	573.42			P, 13
I	59.464	i	584.21			<b>!</b>	65.354	4	573.33	Ωμ11		-,
1		1.				!			l			
ł	59.528	1	584.09			1	65.422	10	573.22		Oni	
١	59.585	10 8	583.99 583.88	R <sub>1</sub> 7	<b>~</b> •	ا ي و ا	65.704	1 2	572.70 572.24			
1	59.640 59.770	Š	583.64	[S <sub>21</sub> 0	Ω <sub>21</sub> 8 Ω <sub>21</sub> 8	P, 6	66.009	10	572.14	Ω, 11		
ı	59.944	li	583.32		P-530		66.113	li	5,1.95	143 · · ·		ł
١	2,4,4	1				1 1	1	1	}			
I	60.067	1	583.10			1	66.306	14	571.59			
ı	60.161	10	582.92		Q <sub>2</sub> 7	l į	66.430	3d	571.36			
1	60.400	1	582.48	Q1213		1 1	66,488	10Ъ	571.26	P. 5		
1	60.743 60.801	8	581.85 581.74		Rai	1 !	67.679	2	569.06 568.70	Ω <sub>12</sub> 10		
I	00.801	"	301.14		Ω <sub>31</sub> 7	1 1	01.010	١.	300.70			
I	60.895	1	581.57			i 1	68,013	2	568.45			
I	60.961	9	581.45		Q <sub>23</sub> 7	1 1	68.067	10	566.35	l i	Pa2	
1	61.051	8	581.28	Ω <sub>1</sub> 13		!!	68,172	1	568.16	1		
i	61.119	1	581.16		<b>~</b> 4	1,,1	66.278	2	567.96		P <sub>2</sub> 3	
١	61.177	10	581.05		℃ 6	P, 7	68.325	10	567.87	Ω <sub>1</sub> 10		
١	61.242	10	580.93	i i	Rail	lì	69.191	10ьь			P2:3	
ı	41.630	1 1	580.21	1		[	69.387	1	565.92	1	P <sub>2</sub> 4	
ł	61.813	7	579.88		Ω <sub>21</sub> 6	1	69.679	1.1	565.38	!		
ı	61.907 61.991	1 8	579.70 579.55		Q236	1 1	69.830	10	565.10 564.98	3, 4		i :
1	01.771	° .	3.7.33		1-230	l 1	07.077	'	304.70	Ω129		
١	62.049	9	579.44		Q <sub>2</sub> 5	<b>l</b> 1	70,020	1	564.75			
I	62.225	lbd	579.12			I	70.130	1	564.55	1		l .
1	62.476	6	578.65			P, 8	70.200	10	564.42		n .	
ļ	62.555	1	578.51 578.31		Q <sub>21</sub> 5	1 1	70.251	10	564.33 564.12		Pa4 Pa5	•
İ		-			~:1-		1	•			- 1 -	i
l	62,749	5	578.15		Ω <sub>2</sub> 4		70.434	1	563.99			
ĺ	62.823	S	578.01			,	70.437		563.89	ا ـ ـ ا		
Į	62.877		577.91	ļ	Ω <sub>23</sub> 5	R210]	70.543	105	563.79	Ω, 9		ł
. [	62.997 63.078	9	577.69 577.54	n <sub>1</sub> 6			70.983	10	562.98 562.66			
١		′		,		]	1	]				]
Ì	63.213	1 1	577.29				71.210	10ъ	562.56		Pn5	P, 6]
١	63.309	6	577.12		Q <sub>2</sub> 3	1 1	71.437	2	562.15	]	P <sub>2</sub> 15	
۱	63.366 63.433	6	577.01 576.89		Q <sub>11</sub> 6		71.803	7	561.47 561.35		P. 7	
ı	63.50b	8	576.75			P, 9	71,956	ĺź	561.19		P <sub>2</sub> 7	1
١		<b>.</b> .				'	1					1
1	63.573	4	576.63	Q <sub>1</sub> 12		1 1	72.008	10ъ	561.10	Ω126	Pas	l
١	63.609 63.750	9	576,56 576,33		O <sub>23</sub> 4		72.122	i	560.89 560.71		P <sub>2</sub> 14	l
١	63.900	8	576.03		Q <sub>2</sub> 2 Q <sub>21</sub> 3	! !	72.315	li	560.53	1	'	1
١	64 036	l i	575.78	.	Qii	1 1	72.395	3	560.38	1	P2 8	l
L				l		<u> </u>		<u></u>		<u></u>		L

A	I	v	Clas	eisicati 5-3	on	1	I		Cla	seificati 5-3	ion
7372,474 72,543 72,664 72,742 72,844	8 3 10bb 7 4	13 560.24 560.11 559.89 559.74 559.56	Q <sub>1</sub> 8	O <sub>23</sub> 3 P <sub>2</sub> 13 P <sub>25</sub> 7 P <sub>2</sub> 9 P <sub>2</sub> 12		7381.468 81.549 81.615 81.685 81.819	10 1 1 5	13 543.72 543.57 543,45 543,32 543.07	Ω <sub>12</sub> 3 P <sub>12</sub> 13		
72.935 72.973 73.049 73.096 73.178	4 7 3 10 9	559.39 559.32 559.18 559.09 558.94	R <sub>1</sub> 3	P <sub>23</sub> 14 P <sub>2</sub> 10 P <sub>23</sub> 8	Pz 11]	81.914 81.981 82.054 82.217 82.341	1 2 10bb 1 7	542,90 542,77 542,64 542,34 542,13	Q <sub>1</sub> 3 P <sub>2</sub> 13		
73,310 73,402 73,477 73,531 73,610	4 1 2 10 4	558,70 558,53 558,39 558,29 558,15		P <sub>23</sub> 13 P <sub>23</sub> 9 P <sub>23</sub> 12		82.444 82.491 82.577 83.040 83.163	8 10 3 1 7	541.92 541.84 541.69 540.83 540.61	R <sub>1</sub> 0 P <sub>12</sub> 12 Q <sub>12</sub> 2	0 <sub>23</sub> 7	-
73,737 73,919 74,059 74,403 74,564	9bd 1d 9 1	557,92 557,58 557,32 556,69 556,40	Ω <sub>12</sub> 7	P2310	P211]	83,238 83,365 83,573 83,664 83,723	6 9 1 2 10b	540.47 540.24 539.85 539.69 539.58	P <sub>1</sub> 12 P <sub>12</sub> 11		
74,658 74,713 75,163 75,429 75,732	10 10b 8 1	556.22 556.12 555.29 554.80 554.25	Ω, 7	O <sub>23</sub> 4		83,850 83,956 84,023 84,181 84,388	1 2 10bb 0 1	539.35 539.15 539.03 538.74 538.36	P <sub>12</sub> 10 P <sub>12</sub> 11	P <sub>1</sub> 11]	
7'. 016 76,125 76,233 76,301 76,426	8 1 1 9 1	553,73 553,53 553,33 553,20 552,97	Ω <sub>12</sub> 6 R <sub>1</sub> 2		`	84.576 84.627 84.700 84.811 84.942	3 10 9 8	538.01 537.92 537.80 537.59 537.34	P <sub>12</sub> 9 P <sub>1</sub> 10 Q <sub>12</sub> 1	O <sub>25</sub> 8 Pu <u>1</u> 0]	
76,511 76,592 76,647 77,568 77,690	1 3 10b 2 2	552,82 552.67 552.57 550,87 550.65	Q <sub>1</sub> 6 P <sub>1</sub> 17			85.002 85.071 85.127 85.184 85.194	3 2 10 1 3	537,21 537,11 537,01 536,90 536,80	P <sub>12</sub> 8		
77,744 77.820 77.097 78.073 78.308	10b 1 10b 1	550.55 550.41 550.27 549.95 549.52	Ω <u>μ</u> 5	O <sub>23</sub> 5		85.225 85,263 85,333 85,414 85,451	3 10 10b 1	536.83 536.73 536.66 536.51 536.39	P <sub>1</sub> 9 Q <sub>1</sub> 1 P <sub>11</sub> 9		
78.517 78.952 79.387 79.433 79.515	10bb 1d 2 10	549.13 548.33 547.53 547.45 547.24	Q <sub>1</sub> 5 P <sub>1</sub> 16 R <sub>1</sub> 1 P <sub>12</sub> 15			85.494 85.540 85.609 65.647 85.715	9 10b 3 1 2	536.33 536.26 536.10 536.05 535.95	P <sub>13</sub> 7		
79.645 79.713 79.998 80.127 80.191	1 8 1d 1 9	547.06 545.94 546.41 546.18 546.06	Ω <sub>12</sub> 4 P <sub>1</sub> 15	O216		85.770 65.671 85.926 86.013 86.072	9 10b 1 2 2	535,83 535,64 535,52 535,38 535,25	P <sub>1</sub> 8 P <sub>11</sub> 6	P <sub>13</sub> 8]	
80.261 80.320 80.666 81.334 81.408	2 10b 1 3 2	545.93 545.82 545.19 543.96 543.83	O <sub>i</sub> 4 P <sub>H</sub> 14 P <sub>1</sub> 14			86.126 86.169 86.290 86.351	10 10b 2 10b	535.15 535.07 534.90 534.76	P <sub>11</sub> 5 P <sub>1</sub> 7	P <sub>11</sub> 7]	

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λ	ı	v	CI	seeificat 5-3	ion	, a	1	,	C1 5-3	assific	ation 4-	2
	<del> </del>			$\overline{}$			1			-1		
7386.411	4	13 534.65		, !		7399.848	105	13 £10.68	C <sub>22</sub> 9	1		
86.505	1 0bb	534.48	P123	P <sub>1</sub> 6]		7400.549	1	525.80		1 1	1	
86.553	3	534.37				00.636	4	508.64	0238	i :		- 1
-86.618	10	534.27	P122	0239	! ]	00.736	1	508.45	į .	1 1	1	
86.687	10	534.14	P136	P <sub>12</sub> 1]		00.634	7	508.28	O2210		1	
86.756	10	534.01	P, 5			00.950	1	508.06				j
86.800	10	533.94	Q, 0			01.026	7	507.92	N <sub>23</sub> 5	1	L 1	
86.877	1	533.82	, -			01.612	l i	506.86	0,10	1 3	!!	
86.957	10b	533.65	P115	P, 4]		01.732	8	506.64	0,11		1	
87.028	2	533.52	- 13-			01.891	ī	506.34	10,110			
87.090	10Ь	533.40	P <sub>1</sub> 3			02.524	5	505.19	0.12	0,11		
87.191	105	533.23	P <sub>13</sub> 4	P, 1]	P, 2]	02.928	1 ia	504.45	1 0:22.2	1000	: i	
87.419	0	532.81	רונים נוים	-1-1	-1-1	03.225	5	503.91	1 ~ 12	1 :	1	
			7337	0.10			0		0,13	1	1	
88.476	6	530.87		O2310	1	03.650	ľ	503.14	0,,12			
89.350	1	529.27				03.816	1'	502.83	0,14			
89.446	2	527.09	ا ا			03.895	5	502.69	N <sub>11</sub> 6			
89,496	10	529.00	O131			94.281	2	501.95	0,:15	1		
90.156	8	527.79		02,11		04,631	1	501.35	C2216	1		
90.918	1	526.40		i i		05.630	1	13 499.53	i	(		
90.971	10	526.30	2وړ0			06.659	1	497.65	Į.			
91.499	1	525.33				06.722	7	497.54	N <sub>13</sub> 7	1	1	
91.671	3	525.02		O <sub>23</sub> 12	<b>i</b>	09.490	3	492.49	Nus	1		
91.809	1	524.77		•		11.973	1	487.97	i -	1	i	
92.012	2	524.40	O <sub>1</sub> ,Z		i -	12.196	5	487,56	N,19			
92.176	1	524.09		1		13.522	1	485.16	-	1		
92.332	3	523.81	N <sub>19</sub> 2	ľ		14.836	1	482.87	N <sub>13</sub> 10			
92,402	10ь	523.68	Ous	Ì		15.551	1 i	481,47	in	1		
92.787	i	522.97	- 14-	}		17.382	2	478.13	N,11	1		
92.910	l i	522.75		1		17.458	1 3	478.CO	in	1		
93.015	4	522.56		0213	1	17.788	ī	477.39	l	1		
03 100	1	522.24		ł	1	17.916	1	427 12	l	1		
93.190	7		0.3	1		23.649	10	477.17	I	i		
93.328		521.99	0,3	1	1			466.76	1	1		
93.743	1	521.23			l	23.937	14	466.24	1	i	1	
93.793 94.190	10 1d	521.13 520.41	0124	O <sub>25</sub> 14	Ī	25.349 26.469	3	463:68	1	1		S <sub>32</sub> 10
					i .	[]	1	i	1	]		١.
94,658	5	519.56	O <sub>13</sub> 4		}	27.922	2	459.01	ł		1	T316
95.075	4	518.79	1	1	l	28,024	2	458.83	ł	1		l
95.126	10bb		0,,5	1	ł	28.493	1	457.98	I	l	ł.	l
95.207	8	518.55	N <sub>13</sub> 3	O215	i	28.612	2	457.76	1	1	5 <sub>22</sub> 11	1
95.965	8	517.16	0,5	1	i	28.847	1	457.34	1	1	ł	
96.359	1.	516.45	1	I	1	29.322	2	456.48			•	R <sub>3</sub> 15
96.408	10	516.35	0,26	1	1	29.854	6	455.51	1	1		15., 9
97.225	5	514.87	0,6	1	1	30.516	0	454.32	1	ł	I	531 9
97.573	4	514.22	_	l		31.405	1	452.71	1	1	I	
97.628	1055		0,27	1	1	32.303	14	451.08	1	İ	ł	R3214
97.805	14	513.81	1	[	Į .	33.003	2	449.81		1	1	1
98.126	1 4	513.22	Nuss	1	1	33.091	11	449.65	1	1	Ĭ	R, 14
98.243	l i	513.01	1	l	1	33.317	5	449.25	1	1	1	T315
98.337		512.83	l	l .	ì	33.522	lī	448.87	1	1	1	1,312
98.434		512.66	0,7	1	1	33.729	2	448.50	İ	1	S <sub>21</sub> 10	1
98,598	1,	512.35	1	1		33,870	1,	448.25	1	1		
98.778		512.02	340	i	1	33.991	li	448.03	ŧ	i	i	1
99.572	ĺź	510.57	One	}	i	34.145	5	447.75	1	1	1	90
99.704		510.34	1 ""	ł	ł	34.642	lí	446.85	į	i	•	S <sub>32</sub> 8
99.798		510.16	i	ł	ì	34,814	li	446.54	1	1	ł	S, 8
. , , .,	1 -	1	1	1	1	11	1	1	i	i	t	1251

\*N I line 7423.639

).	1	¥	Cla	ssificat	ion	2	I	v	Cla	coificat	ion.
7435,260	2	13 445.73	1	R <sub>2</sub> 15		7452.657	10	13 414,34		8	C. 2
35.435	ĩ	445.42		W2 13	1	52.812	i i	414.07		S <sub>21</sub> -	Sn 3
35.786	i	444.78			1	52.974	10	413.77			
35.885	2	444.60		R <sub>21</sub> 15	R <sub>32</sub> 13	53.632	2	412.59			R <sub>32</sub> 7
36.372	ĩ	443.72		1/2113	1,321.3	53.797	10	412.29			R <sub>31</sub> 7 R <sub>3</sub> 7
26 672											
36.678 37.076	1	443.17 442.45			R <sub>2</sub> 13	53.957 54.224	4	412.01 411.53	!	R <sub>2</sub> 10 Q <sub>2</sub> 18	}
37.423	1	441.87				54.317	Ž	411.36	}	12 10	مردا
38.217	9	440.39			5,27	54.624	5	410.81		R <sub>21</sub> 10	Q 16
38, 451	4	439.96			Tu4	54.840	10	410.42		102110	S <sub>12</sub> 2
38,710	5	439.50		~ ^		55 030	10	41.0.00		1	
38.868	3	439.21		S21 9		55.020	7	410.09		1	R <sub>32</sub> 6
39.035	i	438.91			S317	55.413 55.574	i	409.39			S <sub>31</sub> Z
39.263	i	438.50				55.675	i	409.10	}		_ ,
39.351	l i	438.34		R <sub>2</sub> 14	R3212	55.857	9	408.92 408.59			R316 R3 6
					1		1	100.57			., .
40.055 40.606	3	437.07 436.07		R <sub>21</sub> 14	R <sub>3</sub> 12	56.008 56.166	1 9	408.32			<b>.</b> .
42.049	ŝ						5	408.03			T210
42.154	i	433.47			S <sub>12</sub> 6	56.354		407.69	R <sub>1</sub> 12		
42.304	10Ъ	433.28 433.01*		1		56.542 56.662	5	407.36 407.14			O <sub>3</sub> 15
	ŀ	]				i :	1				
42.442	5	432.76			R <sub>32</sub> 11	56.799	10ъ	406.89			R <sub>11</sub> 5
42.697	2	432.30		[R5111	S <sub>31</sub> 6	56.986	10	406.56		S <sub>21</sub> 5	~
43.112	0	431.55			R <sub>31</sub> 11	57.108	2	405.34		Ω, 17	İ
43.242	9	431.31		R <sub>2</sub> 13	R, 11	57.198	8	406.18		R <sub>2</sub> o	ł
43.327	٥	431.16			T <sub>31</sub> 3	57.331	10ъ	405.94			S <sub>32</sub> 1
43.518	5	430.81		S <sub>21.</sub> 8	1	57.440	2	405.74			R315
43,647	1	430.58			1	57.531	1 1	405.58			~31-
43.906	2	430.11		R <sub>21</sub> 13	1	57.655	10b	405.35	1		R, 5
44,344	1	429.32			1	57.783	1	405.12			Q <sub>12</sub> 14
44,663	1.	428.75			1	57.855	10ь	405.90		R219	Sil
45.083	1	427.99			1	58.156	,	404.45			_
45.416	1 3	427.39			R1210	58.312	10	404.17			
45.637	10	426.99		İ	S <sub>32</sub> 5	58,440	ĭ	403.91			Rage
46,210	6	425.96			R, 10	58.566	3	403.72		′ ′	
46.280	6	425.83			S <sub>31</sub> 5	58.685	l ī	403.50			O <sub>3</sub> 14
16 157	١,,	436 54						1			
46,457 46,971	1d 2	425.51 424.59		P. 12		58.915 59.201	3b	403.09		•	R314
47.312	ĩ	423.97		R <sub>2</sub> 12	1	59.356	10	402.58			R <sub>3</sub> 4
47.647	Ž	423.37	1	R <sub>21</sub> 12		59.538	10	402.30		(n -	۱
47,747	2	423.19	R <sub>1</sub> 14	~21.12		59.820	1	401.97		[R <sub>12</sub> 3 Ω <sub>2</sub> 16	Q <sub>52</sub> 13
47.030	١.	422.04	-			1	1	)			1
47.929	8	422.86		اما	T512	60.149	4	400.87			R243
48.165 48.835	10	422.43		S <sub>21</sub> 7	R329	60.270	. 6	. 400.66		R, 8	
48.975	10ъ	421.23		tn a	R319	60.419	19	400.39		·	Ω <sub>2</sub> 13
49.603	106	420.97 419.84		[R, 9	S <sub>33</sub> 4 S <sub>31</sub> 4	60.487	10	400.27	Rili		R, 3
	1	1 1			.31.	1 20.728	١, '	277.21	. 1	R <sub>21</sub> 8	1
49.800	1	419.49		l	( , )	61.039	1	399.27			R,,2
50.544	6 7	418.15		R <sub>2</sub> 11		61.153	10	399.07		S <sub>23</sub> 4	ł
50.686 50.890	lí	417.89 417.52			R <sub>M</sub> 8	61.238	1	378.92			Q <sub>33</sub> 12
51.217	6	416.94		R2111	} }	61.540	5	398.37 397.96			R, 2
	1				1	1		1			Į .
51.505	8	416.42			R, 8	62.032	8	397.49			Cb, 12
51.891 52.056	10ъ	415.72	B 12	l	Ω, 17	62.261	1 1	397.08			1
J4.UJ0	100	415.43	R, 13	1	S <sub>22</sub> 3	62,373 52,576	5	396.88	r i	Ω <sub>2</sub> 15	l
57 222								396.51			
52.222 52.552	11	414.53			T311	62.652	3	396.38			Q <sub>32</sub> 11

\*N I line 7442.299

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-	λ	1	r	- Cia	selficat 4-2	ion	), i	t	,	Cla	###Ilcat	ion ·
	7462.806	1	13 396.10				7474.985	8	13 374.28		Q <sub>23</sub> 9	
	62.977	1	395.79			1	75,131	i	374.01			
	63.182	10	395.43		Re 7	1	75,335	4	373.65		R <sub>2</sub> 2	
	63.308	1	395.20			1	75,556	10	373.25		Q <sub>t</sub> s	
	ú3.451	10	394.94			Ω, 11	75.727	1	372.95	1	_	
		١.	224 33			1						
	63,583	1	394.71			امدما	75.904	10	372,63		Raz	
	63.835 64.512	10b	394.26 393.04	R <sub>1</sub> 10	R <sub>22</sub> 7	O <sub>2C</sub> 10	75.962	10	372.53	R <sub>1</sub> 7	~ 4	
4	64.647	9	392.80	A1 10	ł i	Q 10	76.112 76.218	7	372.26 372.07		S <sub>21</sub> 0	
	64.789	7	392.54		Ω <sub>2</sub> 14		76.375	7	371.79		Q <sub>21</sub> 8 Q <sub>22</sub> 8	
	,	l *	_,_,_,			1	10,313	<b>'</b>	3,30.17		×23.0	
-	64.991	1	392.17			. }	76.442	7	371.67			2, 5
- 1	65.163	10ъ	391.87		S <sub>21</sub> 3	Ω <sub>12</sub> 3	76,765	10ъ	371.09		Q <sub>2</sub> 7	
	65.521	5	391.22			Ω118	76.941	2	370.78	Q <sub>12</sub> 13		•
1	65,614	10	391.06			0.9	77.050	1	370.58			
1	65.822	5	390.69			Ω124	77.305	2	370.13		R <sub>2</sub> 1	1
	65.921	7	390.50		R <sub>2</sub> 6	1						
- 1	66.008	7	390.36		ILE O	Q <sub>12</sub> 7	77.437	10	369.89		Ω217	
1	66.143	10	390.12		[Q <sub>52</sub> 5	Ω, 3	77.605	10b 10b	369.59	Q <sub>1</sub> 13	Q <sub>23</sub> 7	A 41
- 1	66.220	1-6	389.98		132-	Q <sub>12</sub> 6	77,829 78,053	10	368,79		Rul	Q <sub>2</sub> 6] P <sub>3</sub> 7
	66.343	10	289.76			n 8	78,476	9	368.03		Q216	[ 5 7 ]
							14, 115	i	1		-21-	
	66.578	10	369.33		Rais	1	78.655	10	367.71		Q <sub>23</sub> 6	
	66.719	9	369.10			13, 4		10	367.61		Q <sub>2</sub> 5	
	66.829	10ъ	388.88			0,7	78.934	1	367.21		•	1
	67.022	10ъь	388.54	[0, 6	Ω <sub>2</sub> 13	Ω3 5	79.354	10	366.46		Q <sub>21</sub> 5	
	67.372	1	387.91			1	79.432	9	366,32		Q <sub>2</sub> 4	P, 8
1	67.649	1	387.41		Q <sub>21</sub> 13	1	70.540		244 22			_ ,
	67.778	3	387.18		Q <sub>20</sub> 13	1	79.568	105	366.08	Q <sub>12</sub> 12	Ω <u>υ</u> 5	R <sub>1</sub> 6]
1	68.190	ž	386.44			1	80.011 80.07#	8	365,29 365,17		Q <sub>2</sub> 3	
	68.317	105	386.72*			1	80.238		364,88	0.12	Qu4	
-	68.423	10	386.03	R, 9		1 1	80,335	10	364.71	Q, 12	Q <sub>23</sub> 4	1
1	i					1	00,000		2000		~д•	
	68.505	9	385,88		R <sub>2</sub> 5		80.488	10	364.44		Ω <sub>2</sub> 2	P, 9
- 1	69.007	10	794.98		S21 2	Q <sub>2</sub> 12]	80,628	10	364.19		Ω <sub>23</sub> 3	
1	69.143	105	384.74		R <sub>21</sub> 5	1	80.971	1005	363,57		Ω333	Q <sub>21</sub> 2]
	69.337 69.716	1 2	384,39 381,71		Q2,12	1 1	81.245	6	363.29		$\Omega_{21}1$	
1	07.110	-	303.11		P-011-2-	1	81.326	7	362.94			P <sub>3</sub> 10
I	69.824	1	383.52		Q <sub>53</sub> 12	i i	81,515	10	369 60		0.3	
1	70.196	1	382.85			1	81,926	1 9	362.60 361.87		Q <sub>23</sub> 2	Ps 11
ı	70.507	1	382.29				82.071	ĺ	361.61	Q <sub>12</sub> 11		73 **
1	70.916	10	381,56		$\Omega_2$ 11	R <sub>2</sub> 4	82.071 82.192 82.283	10b	361.61 361.59 361.33	~33	Ω <sub>23</sub> 1	
ì	71.568	10	320.39		3,11	R <sub>31</sub> 4	82.283	5	351.23			F, 12
1	71.710	5	380,14		Q <sub>25</sub> 11		82.357	3	361.10			6
ı	72.021	6	379.58	Ω <sub>1</sub> 15	12··	1 1	82.430	1	360,97			P <sub>3</sub> 14
ı	72.110	ĭ	319.42	-,			82.740	10	360.42	0, 11		£3 13
1	72.237	9	379.19	R, 8		1	83,126	ios	359.72	R		
- 1	72.356	Ž.	378.98	•		P, 4	83.905	0	358.25	,	P <sub>2</sub> 2	
ı								i			•	
- 1	72,649	10Ъ	378,46		Ω <sub>2</sub> 10	821 1]	84.464	5	357.34	Q <sub>12</sub> 10		
į	73.204	7	377.46		R <sub>2</sub> 3	l 1.	84.968	10	356.44	١	P202	i j
	73.298	3	377.29		Quio	[ [	85.135	10	356.14	Ct 10	P2 3	
1	73.433 73.815	4 10ь	377.05 376.37		Ω <sub>23</sub> 10		86,155	106	354.32		P <sub>n</sub> 3	
	13.013	1 OB	319.31		R213	1	85.374	,	353.93		P <sub>3</sub> 4	
	73.940	1	376.15				86.606	10	353.52	R <sub>1</sub> 4		1
1	74.034	2	375.98	1			86.753	9	353,25	Q <sub>12</sub> 9	1	1
ı	74,177	10	375,72	C1214	Q <sub>2</sub> 9	( (	86,938	Ź	352.92		P2 17	
ı	74.538	8	375.98			P, 5	87.271	106	352.33		P <sub>D</sub> 4	
1	74.852	8	374.51	Q <sub>1</sub> 14	Q119		87.422	105	352.06	Q <sub>1</sub> 9	P2 5	
- 1	<u>.</u>	L	L	لــــــــــــــــــــــــــــــــــــــ	L	Il.	L	<u> </u>	<u> </u>	L	L	L

\*N I line 7468.309

λ	1		Cla	ssificati 4-2	ов	λ	1	v	. CI	seificati 4-2	on * .
7487.925	0	13 351.16		P2 16	-	7600,776	7	13 328.29	P <sub>1</sub> 12		
88.128	li	350.80		2 2 2 2	1 1	00.887	10	28.09	P <sub>12</sub> 11		
88.264	1 Cb	350.56	1 1	P235	P2 6]	01.074	105	327.76	Q <sub>1</sub> 2		
88.727	5	349.73		P <sub>2</sub> 15		01.564	106	326.89	P1210	P <sub>1</sub> 11]	
88.951	9	349.33	Ω <sub>12</sub> 8	_	l	01.716	1	326.62	Püll		
89.010	9	349.23		P <sub>2</sub> 7		01.893	1	326,30			
89.120	10	349.03	•	Pzié	1	02.154	106	325.84	P129		
89.363	3	348.60		P <sub>2</sub> 14		02.235	10	325.70		P <sub>t</sub> 10]	
89.557 89.633	10	348.25 348.12	[P <sub>2</sub> 8	P <sub>23</sub> 15	O233]	02.352 02.503	10	325.49 325.22	P110	C <sub>25</sub> 8	
89.830	10ъ	347.77		D 7	n .33		10	1			
29.953	10	347.55	1	P237	P <sub>4</sub> 13]	02.643	10	324.97	P128		
90.017	10	347.43	R, 3	P <sub>2</sub> 9		02.828	10	324.81	$\Omega_{1}$		
90.111	3	347.27	7,3	TO 12	1 1	02.935	2	324.64	P1 9		
90.165	1 7	347.17	1	P <sub>2</sub> 12 P <sub>2</sub> 10	P2:14]	03.054	10ъ	324.45 32.24	P <sub>13</sub> 9 P <sub>12</sub> 7		
90.236	7	347.04		P <sub>2</sub> 11		03.180	1	324. 12	_	-	
90.378	10	346.79		P. 8		03.312	10	323./8	P, 8		
90.500	i	346.57		- 25		03.338	10	323,65	Pu6		
90.626	6	346.35	1 1	P <sub>23</sub> 13	1	£3.506	1	325.44	P138		
90.761	10	346.10		P239		05,638	iob	323.21	P <sub>12</sub> 5		
90.915	5	345.83		P <sub>23</sub> 12		03.723	10	323.06	P <sub>1</sub> 7		
90.992	10	345.70		Paiv		03.857	1.05	322.01	F137	F. ii	
91.061	10	345.57	Ωμ7	Pa 11	1	04.008	105	322.56	P <sub>12</sub> 3	P <sub>18</sub> 2 P <sub>1</sub> 6	
91.586	1	344.64	-	_	1	04.107	10	322.38	Pu2	Pul	
91.716	10ъ	344.41	Ω, 7		1	04.181	10	322.25	Pu6		
92.399	10	343.19		C234		04.289	10	322.05	P. 5	Ω <sub>1</sub> 0]	
92.888	1	342,32				04.471	10ъ	321.72	Pu5	029	P, 4]
93.083	10	341.97	Q126			04.611	10b	321.47	P <sub>1</sub> 3	P, 0]	l i i
93.342 93.474	10	341.51	R <sub>1</sub> 2			04.704	10	321.32 326.88	Pu4 Pu3	P <sub>1</sub> 1,2]	
		l			į	l	1	l	7 13		
93,590	1.05	341.07				06.395	9	318.31	<b>.</b> .	O210	i
93.738 94.330	10b	340.81	Ω, 6	1	ł	07.094	100	317.08	0121		1
	10	339.75	P <sub>12</sub> 17	n 121	ł	08.173	10	315.16	١.,	Ou11	1
95.026 95.104	10	338.51 338.38	Q <sub>12</sub> 5	P <sub>1</sub> 17] O <sub>25</sub> 5	1	08.640	10	314.33	O <sub>12</sub> 2 O <sub>12</sub> 2	Oul	1
95.285	١,	338.05	1	_	ł	09.780	6	312.31	-	0.12	1
95,461	iba				1	09.930	l i	312.04	1	O2312	l
95.678	106	337.35	Q, 5	i	1	10.056	1 6	311.82	N132	1	}
96.428	3	336.02	P. 16		1	10.149	10	311.66	0,13	1	1
96.602	10	335.71	R <sub>1</sub> 1		1	11.107	10	309.96	013	1	
96.908	10	335.17	Ω114			11.209	7	309.78	1	02313	
97.017	3	334.97	P <sub>15</sub> 15	ł	l	11.607	105	309.07	0124	1	l
97.541	105	334,04	[ Q <sub>1</sub> 4		j	12.506	8	307.43	0,,4	0214	}
97,670	10	333.81	P <sub>1</sub> 15	0256	Ì	13.021	1000	306.57	0125	N <sub>13</sub> 3]	1
98.167	3	332.93	P <sub>12</sub> 14	P <sub>1</sub> 15	}	13,557	2	365.6	ļ		{
98.732	10	331.92	Q <sub>12</sub> 3	ļ .		13.734	1.1	305.30	1	O <sub>29</sub> 15	1
98.850 99.195	7	331.71	P <sub>1</sub> 14		l	13.688	10	305.03	0,15	i .	l
	10ь		P <sub>12</sub> 13	P <sub>1</sub> 14]	1	14.370	110	304.18	O126	1	٠ ١
99.340 99.759	7	330.84 330.10	Ω <sub>1</sub> 3 R <sub>2</sub> 0	l	1	14.661	8	303.66	0,6		
99.876	8	329.89	P, 13		1	16.461	1	1	1	l	1
7500.090	105	329.51	P <sub>12</sub> 12	027	P, 13]	15.461	105	302.25	0.2	1	1
00.284	1	329.16	- 13-2	~s.	1,,	16.139	8	301.05	O127	1	1
00.496	9	328,79	Q <sub>12</sub> Z	ì	1	16.303	l i	300.76	N <sub>13</sub> 4	1	1
00.656	Ιí	323,50	-11-	l	1	16.500	9	300.41	07		1
	1		ــــــــــــــــــــــــــــــــــــــ	<u> </u>	1	L	ــــــــــــــــــــــــــــــــــــــ	1 200.41	0,57	<u> </u>	L

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The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

λ	1	v	Clar 4-	sificat 2	ion 3-1
7516.664	1	13 300.12			
26.883	10	299.73	Oi28		
17.714	5	298.26	Out		
17.868	1	297.99	! " !		
18.025	10ь	297.71	Oug		
18.848	6.	296.25	940		
18.963	1	296.05	-		
19.088	9	295.83	0,210		
19.177	10	295.67	N <sub>13</sub> 5		
19.905	3	294.39	O1110		
20.051	10	294.13	0,11		
20.857	2	292.70	0,311		
20.917	5	292.60	0,2:2		ŀ
21.675	7	291.26	0,13		
22.199	7	290.33	N136		
22,324	3	290.11	0,14		
22.839	3	269.20	0,215		
25.170	10	285.08	Nu7	i	}
27.370	1	281:20			
28.080	5	279.95	Nu8		
30.936	1	274.91	N <sub>13</sub> 9		
33:711	3	270.02	Nixto		
34.913	1	267.91	-		ł
36.402	4	265.28	Null		
38.416	1	261.74			
39.006	1	260.70	N <sub>13</sub> 12		l
39.413	] 1	259.99	-		
39.503	3	259.83	1 1		
40.200	3	258.60			
41.209	Z	256.83	1		T317
41.508	1	256.30	N <sub>13</sub> 13		l
44.400	_2_	251.20	L		i

Gap in the measurements which contains the following band. The listing is for the P<sub>1</sub> I line which coincides with the most prominent head (P<sub>1</sub>).

13 108.12

The O- and N-branches of the 3-1 branch are given below.

In the following region from 7628 to 7756 A the measurements are obtained from spectra with two different discharge conditions, the first (I) a low pressure discharge cooled by liquid nitrogen as for the rest of this table, the second ona (I<sub>2</sub>) an uncooled discharge at 8 mm pressure which has a higher rotational temperature.

This means that under these conditions the lines of the 2-0 band and parts of the neighboring 3-1 and 7-6 bands can be followed to much higher rotational quantum numbers (up to J=35 instead of J=15 for the low temperature discharge).

The weak 8-7 band which coincides with the 2-0 band has only partly been analyzed.

			,					
	1	I <sub>2</sub>				assificati 	on 2-0	
	-	1-2		3-			<del></del>	
7628.919		7	13 104.42		O <sub>23</sub> 10		1	
29.064		1	104.17					
29.257		6	103.83	Oni				
29.647		ż	103,27 103,16					
		-	103.10					
30.282		2	102.87		1			
30.434	İ	13	101.81					Q <sub>3</sub> 33
30.779		7	101.22	Oul	O <sub>23</sub> 11		1	
30.883 31.054		12	101.04 100.75	Ou2		9 25		
32.034		.~	100.13			R <sub>1</sub> 25		
31.399		Z	100.16					
31.728		9	099.59				R <sub>2</sub> 24	
31.870	1	2	699.35					
32.026 32.311		5	099.08	0133				
1 32.3	1	1	098.59	N175	-			R3223
32.458	l	9	098.34	0123	02512	l		
32.549	l	9	098.13	l <sup></sup>		Q <sub>1</sub> 34		
32.670	l	6	097.97					P <sub>3</sub> 45
33.011 33,141		13	097.39				Q <sub>2</sub> 33	
1 77,171	l	1 **	097.17					11, 23
33.458	l	5	096.62	0,,3				
33.713		1	090.19	i "			Q2133	
34.000		10	095.69	0,.4	02313			
34, 193		3	095.36	l				
34,400		5	095.01	•				832 16
34,471	1	1 5	094.89	ł			S <sub>21</sub> 17	
34.585		2	094.69	1				
34,741		3	094.42	١	<b>(</b>	1		
34.939 35.102		2	094.08	0134		ì		
33.102		1 -	093.80	•				
35.293		6	093.48	l	0214			
35.353		6	093.38	İ	-			
35.492	1	8	093.14	0125	i			
35.560 35.938		3 10	053.02	N <sub>L3</sub> 3	•			
33.730		1.0	092.38	l	ļ			Q3 32
36.157	l	3	092.00	l	ł			
36.395	Ī	3	091.59	€135	l			
36.510	ļ .	7	091.39	į .	02315	I		
36.644 36.923	l	5	091.16	0.4	I	ł		Ī
10.763	l	1	370.08	0126	1	ļ		
37.319	i	9	090.00	ĺ	1	R, 24		
37.504	l	[ 5	089.68	ļ.	Onle	•		
37.626	l	11	089.48	<b>[</b>	1	1	R <sub>2</sub> 23	l
37.721 37.801	l	2	089.30 089.18	0,,6	1	1		٠.
	l	1	1	Cho.	1	ŀ		Ī
37.869	Ì	4	089.06	(	l	I	[	R3322
37.979	Ī	11	088.87		1	ł	[ .	l
38,305 38,455	l	12	088.32 088.06	0,27	0217	Q <sub>L</sub> 33	Ì	P <sub>1</sub> 44
38.550	ì	4	087.89	ł	]	-"	1	.,,,,,
}	1	1	}		)	Ì	'	Ì
38.676 38.713	l	9	087.62	1	ŧ	•	Q <sub>2</sub> 32	
38,943	1	1 3	087.22	N <sub>13</sub> 4	0213	1	1	R, 22
39.004	l	2	087.11	Į	-4,-0	Į.	į .	l
39.074	l	3	086.99	i	1	Į	l	ŀ
L	ــــــا	<u> </u>	·	<u> </u>	ــــــ	<b></b> _	<b></b>	<u> </u>

		Г			C	Classification					
3	1	I.		3-1			2-0				
7639.166		3	13 086.84	0117				-			
39.404	ì	8	086.43				t				
39.442		7	086.37		O <sub>23</sub> 19		1				
39.5/8		7	086.13	O <sub>22</sub> 8		1	1				
39.681		5	085.96				1	,			
39.776		5	085.79			1					
40.289		1	084.91			1					
40.362		5	084.78								
40.435		2	084.66	0138							
40.502	İ	7	084.55					Sys 15			
40.592			034.40								
40.814	7	9	084.40 084.01	00							
41.024	'	4	083.65	0129		1	S21 16				
41.174		4	083.40				21.00				
41.274	0	<b>X</b> 3	083.23					Ω, 31			
1		1.	1								
41.364	١.	2	083.05								
41.672	Ş	2	082.55	0,19	., .,						
41.946	6	9	082.08	01210	N <sub>13</sub> 5]		•				
42.453	lbd		081.21 080.61	010	1						
	· • •	] "	1	OTT10							
42.987	5	9	080.29	Ouil	`						
43.126		3	080.66								
43.261	0	6	079.83					R3921			
43.356		6	079.66				P2 22				
43.443		Z	079.52			R <sub>1</sub> 23					
43.564	14	1	079.31								
43.710		6	079.06	1							
43.828	1	3	078.86	01311							
43.924	2	6.	078.69	01212							
44.065		12	078.45			[R2122	Q <sub>2</sub> 31	II, 21			
44.131	1	ч0Р (	078.34	1				D 40			
44.209	1	9	078.20			Q, 32		P, 43			
44.516	İ	Ś	077.68								
44.621	0	2	077.50	1				1			
44.744	3	9	077.29	O <sub>12</sub> 13		- 1	• •				
44.00	١.	١.		1	· '		1				
44.919	1	1	076.99		[		1				
45.016	١,	4	076.82		١ ٠		,	Tailo			
45.120 45.448	2	1 8	076.65	N236							
45.587	١	3	076.08	01214							
1	l	l	1	l							
45.727	-	5	075.61	l	l		1	1			
45.791	١٠.	5	075.50	į į	[ :						
45.901	١	3	075.31		1	1		I			
46.033	14	2	075.08	01215	1			!			
46.146	[	۱"	074.69	l	ļ i						
46.278	0	5	074.66					ł			
40.432	1150	ý11	074.40	]	ł		[S <sub>32</sub> 14	Q 30			
46,482	1	4	074.32	01216	ł	ł	1	1			
46.683	١	5	073.97				1	l			
46.806	1bc	7	073.76	0,217	1		1	l			
46.899	l	6	073.60	}	l	0	•	l			
46.960	1	3	073.46	l	[ .	8	1 .	l			
47.028	ł	7	073.38	0,218	)		Ì	İ			
47.182		4	073.12	l "	İ		l	•			
47.299	Q	2	072.92	1	İ		1	1			
L	<u> </u>	٠	J	L	1	B	l	L			

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		·			<del></del>								
	1	$\perp$	1	I <sub>2</sub>	,	3-1		Clas	e (f)	cation 2-0			
	7647.41 47.62 47.75 47.86 48.24	4	3	7 2 3 2d 3	13 072.7 072.3 072.1 071.90 071.3	6	,			S <sub>21</sub> 1	5		
	48,675 48,589 48,698 48,924 49,031			5 3 2 10	070.91 070.71 070.53 070.14					R <sub>2</sub> 21		R112	6
	49.102 49.303 49.357 49.409 49.636			0 0 0 9	069.84 069.50 069.40 069.31 068.92			R <sub>1</sub> 2.	2	Ω <sub>2</sub> 30 R <sub>22</sub> 21		R <sub>3</sub> 20	
	49.782 49.831 50.022 50.192 50.308		1	0 5 2 7	068.68 068.59 068.27 047.98 067.78		-	Ω, 3.	2	<b></b>		,	
	50.439 50.590 50.722 50.932 51.014	1 1		2 2 0 2 5	067.55 047.29 067.07 066.71 066.57								
	51.132 51.290 51.429 51.815 51.924	1	13	: 1	066.37 065.10 065.86 065.20 065.02	N <sub>13</sub> 8					67	3, 29 53,9	
	52.063 52.143 52.445 52.669 52.847	0	4 6 4 3 2		064.78 064.64 064.13 063.75 063.44						8	52 13	
•	53.001 53.178 53.404 53.503 53.634	1 0.	1 3 1 7 5		063.08 062.88 062.55 062.32 062.10					5 <sub>21</sub> 14 :	R	12 I 9	
	53.803 54.332 54.483 54.666 54.940	2	131 13 6 7		061.80 060.91 060.65 060.34 059.87	<b>и</b> 19		j		R <sub>2</sub> 20 D <sub>2</sub> 29		19	
	55.045 55.241 55.420 55.780 55.914	1	5 13 2 4		059.69 059.36 059.05 058.44 058.21		(	Q <sub>1</sub> 36	. 2	t, 21]	,		•
	55.944 56.060 56.190 56.152 56.246		5 4 3 1		058.16 057.96 057.89 057.80 057.64				,		Ω	28	

λ	:	14	- •	3-1	Class	ification 2-3	·
7656.386 56.622 56.679 57.229 57.383	1 1 2	2 4 2 2	13 057,40 057,00 056,90 055,97 055,70	N <sub>23</sub> 10			
57.666 57.826 57.941 58.067 58.353		5 7 2 4	055.22 054.95 054.75 054.54 054.05			[R <sub>32</sub> 18	S <sub>32</sub> 12
58.699 50.825 59.033 59.192	0	2 2 2d 9	053.45 053.25 052.89 052.62				R, 18
59.410 59.565 59.761	0	10 11 7	052.20 051.98 051.75			Q <sub>2</sub> 28	
59.857 60.084 60.165	2 1	6	051.48 051.10 050.96	N <sub>13</sub> 11		S <sub>21</sub> 13	P <sub>3</sub> 40
60.285 63.496 60.546 60.753	ld	8 14 2	050.75 050.39 050.31 049.97		Q <sub>1</sub> 29	R <sub>21</sub> 19	
60.897 61.138 61.363	0	14 5 7	049.71 049.30 048.92		R <sub>1</sub> 20		Q, 27
61.430 61.559 62.023		8 2 3	048.81 048.59 047.80	,			
62.197 62.316 62.719 62.844 62.990	1d 0 1d 2	3 2 2 2 9	047.50 047.30 046.61 046.40 046.15	N <sub>13</sub> 12			e 11
63.033 63.222	•	8 3	046.08 045.76				S <sub>12</sub> 11 R <sub>33</sub> 17
63.711 63.852 63.918	ı	3 12 4	044.92 044.68 044.57			_	R, 17
64.226 64.528 64.632	1	14 2 8	044.05 043.53 043.36	į		Q <sub>2</sub> 27 R <sub>2</sub> 16	
64.714	1	3 5	043.21 042.94				T <sub>M</sub> 7
64.977 65.066 65.366 65.514	14	3 11 4	042.76 042.62 042.11 041.86	N <sub>13</sub> 13		Q <sub>21</sub> 27 R <sub>21</sub> 18	P <sub>3</sub> 39 Q <sub>3</sub> 26
65.681	1	10	041.71		Q <sub>1</sub> 28	S <sub>21</sub> 12	
65.231 66.069 66.452 (5.740	1	2 12 6	040,31 040,91 040,26 039,76		R, 19		

(2)

		T-	T	T				
	1	1	1,2	,		Classifics 2-0	tion	
	7666.832 67.183 67.310 67.480	1bd	5 4 2 5	13 039.64 039.04 038.86 038.51	;			_
	67.876		3	. 037.84	<b>'  </b>		Rul	,
-	68.100 68.220 68:320	(	10 2 9	037.44	. 1		S <sub>32</sub> 10	- {
	68,431 68:707	1	2 2	037. 08 036. 89 036. 42	1		R <sub>3</sub> 16	
	68.849 68.926 69.211	14	11	936.19 936.05		Q <sub>2</sub> 26		
	69.530 69.657	0	11 14	035.57 035.03 034.81		R <sub>2</sub> 17	Ω, 25	
i	69.780 69.87 <b>4</b> 69.962		3 5 6	034.60 034.44 034.29	.}		P <sub>3</sub> 38	1
	70.123 70.256		3	034.0Z 033.79		R <sub>21</sub> 17		
	70.658 70.825 71.087 71.179 71.276	14	14 3 3 3 4	033.11 032.82 032.38 032.22 032.06	O <sub>1</sub> 21		T <sub>11</sub> 6	
	71.326 71.751 71.844 71.886 71.993	1	6 8 9 9 4	031.96 031.25 031.09 031.02 030.84	R, 16	S <sub>21</sub> 11	R <sub>33</sub> 15	
	72.142 72.451 72.592 72.983 73.175	2	2 1 9 3	030,59 030,06 029,82 			R <sub>H</sub> 15 R <sub>1</sub> 15 S <sub>M</sub> 9	
	73.305 73.709 73.765 73.886 74.022	0	1 3 3 3	028,61 027,92 027,83 027,63		Q <sub>2</sub> 25	8 <sub>21</sub> 9 Ch 24	
	74. '61	İ	3	027.40		Qu25		
	74.258 74.312 74.497		8	027.00 026.90 026.59		Q <sub>23</sub> 25 R <sub>2</sub> 16	D 27	
	74.982		4	025.77		R <sub>21</sub> 16	F <sub>3</sub> 37	
	75.483 75.609 75.712	1.	3 }	025.55 024.92 024.70	Q <sub>1</sub> 26			
	75.830		3	024.53 024.33			R <sub>M</sub> 14	
	76.469 76.520 76.574	1	,	023.24 023.15 023.06			R <sub>M</sub> 14	
	76.680	2 9		022.89		[R, 14	T <sub>M</sub> 5	

λ	ı	I <sub>2</sub>	v	<u> </u>	Classific 2-0	ation	8-7
7676.873 76.988 77.092	1 0	8 3 12	13 022.53 022.36 022.19	R; 17	S <sub>21</sub> 10	Q <sub>M</sub> 23	
77.321 77.455 77.589	0	3	021.80 021.57		0.34		
77.653 77.696 77.866 78.033		11 14 3 3	021.34 021.23 021.16 020.87 020.59		Q <sub>6.</sub> 24	S <sub>32</sub> & Q <sub>3</sub> 23	
78.211 76.344 78.442 78.575 78.685	0	6 3 3 4 3	020.29 020.06 019.90 019.67 019.48		Ω <sub>33</sub> 24	531 8	- R <sub>3</sub> 13
78.755 78.812 78.951 79.148 79.270	1	3 10 4 3	019.37 019.27 619.03 018.70 018.49		R <sub>k</sub> 15	P <sub>3</sub> 36	
79.437 79.540 79.694 79.878 80.039	0	3 9 9 3 3	015.21 018.04 017.77 017.46 017.19		2 <sub>11</sub> 15	R <sub>32</sub> 13	
80.155 85.293 80.433 80.546 81.449	2	14 3 3 11 11	016.99 016.76 016.51 016.33 014.80	Ω <u>ι</u> 25	-	R <sub>31</sub> 13 R <sub>3</sub> 13 Q <sub>3</sub> 22	
81.573 81.701 81.619 81.944 82.078	0 4	3 14 3 8 8	014.59 014.37 014.17 013.96 013.73	P <sub>1</sub> 37	O <sub>2</sub> 23	S <sub>32</sub> 7	
82.205 82.291 82.409 82.546 82.601	0 3 0	10 8 3 3	013.52 013.37 013.17 012.94 012.85	R <sub>1</sub> 16	P <sub>2</sub> 36 B <sub>21</sub> 9 Q <sub>21</sub> 23 Q <sub>23</sub> 23	T314	
82.668 82.776 82.873 82.992 83.101	2	3 6 3	012.73 012.59 012.39 012.19 012.00			S <sub>31</sub> 7	
83.199 83.245 83.355 83.663 83.921	0 1 1bd	99436	011.84 911.76 011.57 011.05 010.61		Rg 14	P <sub>3</sub> 35 R <sub>31</sub> 12	
84.075 84.203 84.349 84.487 84.671	0 2	3 3 1	010.35 010.14 009.89 009,65 009.34	Ω, 24		R <sub>11</sub> 12 R <sub>1</sub> 12	

	,							
	ı.	1	Is			Classific 2-0	ation	8-7
	7684.819 85.010 85.128 85.279 85.424	1 0	3 14 · 3 1 3d	13 009.09 008.77 008.57 008.31 008.07			O <sub>3</sub> 21	
	85.646 85.772 85.860 85.973 86.126	0	12 3 3 4 3	007.69 007.48 007.33 007.14 006.88		Q <sub>2</sub> 22		k <sub>3</sub> 11
	26.255 86.353 86.421 86.491 26.601	3 0	4 6 3 3 8	006.65 006.50 006.38 006.26 006.08	P <sub>1</sub> 36	Q <sub>11</sub> 22 Q <sub>11</sub> 22 P <sub>2</sub> 35	S <sub>34</sub> 6	
	86.653 86.710 86.795 86.925 86.956	1 2 2	4c 3 8 3	005.99 005.89 005.75 005.53			P. <sub>32</sub> 11 S <sub>34</sub> 6	
	67.064 87.180 87.281 87.348 87.402	1 2 1 2	3 12 3 6 10	005,29 005,10 004,92 004,81 004,72	R <sub>1</sub> 15	R <sub>2</sub> 13	P, 34	
	87.500 87.572 87.633 87.646 87.825	2 4 1	4 3 11 3d	004.55 004.43 004.33 004.31 004.00		S <sub>21</sub> A.	R <sub>35</sub> 11 Q <sub>12</sub> 20 T <sub>31</sub> 3 R <sub>3</sub> 11	
	87.991 88.129 88.235 88.313 88.385	1 2	3 3 3 11	003.72 003.49 003.31 003.18 003.06		R <sub>21</sub> 13	Ω, 20	
	88.529 68.703 88.762 89.858 69.033	1 14	3 3 3d 14	002.82 002.52 002.42 002.26 001.96	Ω <sub>1</sub> 23			
***************************************	89.171 89.290 89.421 89.545 89.737	1	3 13 1 1 3d	001.73 001.53 001.31 001.09 000,77		Ω <sub>2</sub> 21		R <sub>5</sub> 10
AND SHELLOWING SERVICE COLUMNS	90.012 90.113 90.174 90.269 90.367	ž 1 5	6 4 8c 3	000.30 000.13 900.63 12 999.87 999.71		Ω <sub>21</sub> 21 Ω <sub>11</sub> 21	R <sub>33</sub> 10 B <sub>33</sub> 5	
	90.720 90.602 90.863 90.848 91.015	1 3 0	4 6 9e 8c 4	999.11 998.97 998.88 998.81 998.61	•	P <u>.</u> 34	R <sub>21</sub> 10 S <sub>21</sub> 5 R <sub>3</sub> 10	

ſ		I	I,			Ciassific 2-0	ation	8-7
ł	7691,109	<u> </u>	3	12 998.45			-	-
1	91.193		6	998.31				l
١	91.277 91.376	•	3	998.17 998.00			P <sub>3</sub> 33	1
1	91.443	1	•	997.89		R <sub>2</sub> 12		1
1	91.578	•	14	997.61			Q 19	l
ł	91.716 92.019	9	3 8	997,43	9 14		1.2.2	}
ı	92.165	1	8	996.92 996.66	R <sub>1</sub> 14	R <sub>22</sub> 12		1
	92,326	9	3	996.40				R, 9
1	92,437 92,549	0	3 8	996.21				•
ı	92.662	2	3	996.02 995.83		S <sub>21</sub> 7	T312	ĺ
1	92.819 92.99 <b>8</b>	1 3	3 12	995.56 995.26			R129	1
ı		-	1	·			20,27	Ì
1	93.034 93.147	2	12 3	995.20 <del>9</del> 95.01		Q <sub>2</sub> 20		1
1	93,246 93,348		12	994.84 994.67	Q <sub>1</sub> 22			•
1	93,433	1	3	994.53				
1	93,710	1	3	994.06		[Q <sub>32</sub> 18	R <sub>M</sub> 9	-
1	93,813	4 4c	10	993.88			S <sub>32</sub> 4 R <sub>3</sub> 9	
I	93,864 94,023	i	3	993.79 993.53			К, 9	
ı	91,404		3	992.89			i	
1	94,496	2		992.73			8314	
I	94.562 <del>74</del> .706	ì	11 3	992.62 992.38			Q <sub>3</sub> 18	
ı	94,834 94,940		9	992.16 991.98		P <sub>2</sub> 33		
1								
ı	94.998 95,163	i 1	6	991.83 991.61			P <sub>3</sub> 32	R, 6
	95.299 95.432	3	9 3d	991.38		R <sub>2</sub> 11		
ı	95.569	i	6	991.15 990.92				
1	95.734	3	6	990.64			R218	
ł	95.837 95.897	,	3	990.47 990.37	·		-	
I	96,020	3	9 .	990.16	1	R2111		
ł	96.219	:4	4	989.82				
İ	96.341 96.453	,	3 14	989.62 989.43	1	0.10		
1	96,605	3	8	989.17		Ω <sub>2</sub> 19	R <sub>31</sub> 8	,
1	96.729 96.860	2 0	12	788.96 988.74	R <sub>1</sub> 15		,	
1	l							
	97.010 97.173	7	1 9	988.49 988.21	ŀ		S <sub>32</sub> 3	
	97.283 97.353	1 5	14	988.03 987.91	Q <sub>1</sub> 21	ĺ		
	97.364	_	14c	987.89			T <sub>31</sub> 1 Q <sub>3</sub> 17	
	97.429	3		987.78		S <sub>21</sub> 6		
	97.577 97.693	0	3	987.53 987.34				R <sub>3</sub> 7
1	97.840	4	6	987.09	j		S <sub>31</sub> 3	4/3 /
L	97.95?	1	3	986.89				

	Ι	Γ	· · · · · ·	T	Clyants	cation	
1	I	I <sub>3</sub>			Clussifi 2-0	Cation	8-7
7698.037		6	12 986.76		T		
98.115	16	3 9	986.62 986.45	1	1	8.7	l
98.351	ĭ	3	986.22	1		R <sub>32</sub> 7	1
98.476		4	986.02	1	1	1	1
98.602		9	985.80	1		P, 31	
98.698 98.847		3	985.54	1	P2 32		í.
98.972	2	6	985.39 985.18	l	R <sub>2</sub> 10	R. 7	1
99.106	6	10	984.95	1	[Ω <sub>32</sub> 16	R <sub>31</sub> 7	Q <sub>32</sub> 16
99.230		3	984.74	1			i
99.337	0	10	984.56	P <sub>1</sub> 33	1	1	1
99.704	7	12	984.21 983.94	[R210	Q, 18	1	I
99.788	0	6	983.80	1		ł	Ι.
99.863	·	3	983.68	į	1	l	
99.950 7700.084	1bd	11	983.53 983.30	1	i	Ω, 16	R, 6
00.219	5	4	983.07	1	1	S <sub>32</sub> 2	l
00.340	1	3	982.87	ł		~	Q <sub>3</sub> 14
00.442	5	6	982.70	1		R326	1
00.601	1	*	982.43	1	1	~	1
00.737 00,844	3	4	982.20 982.02	İ		S <sub>31</sub> 2	]
01.036	1	3	981.70	l	1	-31-	
01.147	1		981.51	1		R <sub>M</sub> 6	ļ
01.215		11	981.39	Q <sub>1</sub> 20	1 1	- 134	
01.316	1	9	981.25 981.1 <b>8</b>	R <sub>1</sub> 12		P. 6	
01.484	1	4	980,94	1		R <sub>3</sub> 6 Q <sub>32</sub> 15	
01.673	4	4	980.63	1		T310	
01.803	0	3	980.41	1	1	-3,	Q <sub>32</sub> 13
01.947	1	5	580,16 980,07	İ		P <sub>3</sub> 30	R, 5
02.123	6	8	979.86	]	S <sub>21</sub> 5	2,30	
02.224	1	3	979.69	İ			
02.322	1	13	979.53	į	] ;	Q <sub>3</sub> 15	
02.381	7	13c	979.43	1	P <sub>2</sub> 31	R <sub>32</sub> 5	
02.624	6	6	979.26 979.02		R, 9		Q <sub>3</sub> 13
02,789	za	13	070 74	ļ	ا ـ ا		
02.955	8	6	978.74 978.47		Ω <sub>2</sub> 17	331	
03.084	1	3	978.25	l		R315	
.03,196 03,312	5 7	9	979.06 977.86	P <sub>1</sub> 32	R219	R, 5	
1 1	1	- 1		1,11		.,,,	
03.418 03.519	1 4	3 6	977.68 977.52		Q <sub>21</sub> 17	S <sub>31</sub> 1	
93.663	1	6	977.27		Q <sub>23</sub> 17	Ch214	
03.802	0	4 3	977.04 976.85				Ì
i i	1	ı					
04.024 04.150	5	6	976.66 976.45		l	R <sub>32</sub> 4	
04.259	[	6	976.27	Q <sub>12</sub> 19	j	I	
04.387 04.518	2	10	976.05 975.83			Ω, 14	
			,,	لــــــا	I	-77 . 7	

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7704.654 04.706	1	3	12 975.60 975.51			R914			Q <sub>3</sub> 12
04.786 04.885 04.982	0 5	1 3 14	975.38 975.21 975.05	Q <sub>1</sub> 19		R <sub>2</sub> 4	R <sub>1</sub> 11		
05.099 05.161 05.206 05.370 05.552	1d 8	3 10 6 3	974.85 974.75 974.67 974.40 974.09			P <sub>3</sub> 29 R <sub>22</sub> 3			Q, 12
05.639 05.690 05.765 05.813 05.886	1 4 3c	9 10 6	973.94 973.86 973.73 973.65 973.53	R <sub>1</sub> 11	O <sub>2</sub> 16 R <sub>2</sub> 8 P <sub>2</sub> 30	Q <sub>32</sub> 13			
06.022 06.228 05.389 06.493 06.650	1 7 5 5	3bd 9 13 4	973.30 972.96 972.68 972.50 972.24	[Q <sub>21</sub> 16	[R <sub>32</sub> 2 R <sub>31</sub> 8 S <sub>21</sub> 4	R <sub>31</sub> 3 R <sub>2</sub> 3 Q <sub>3</sub> 13			
06.961 07.015 07,167 07.382 07.540	15d 15d 3	4bd 10 3 3	971.72 971.62 971.37 971.01 970.74	P <sub>1</sub> 31	-	R <sub>31</sub> 2 Q <sub>32</sub> 12 R <sub>3</sub> 2			í
07.674 07.823 07.944 08.065 08.228	3	6 3 3 3 12	970.52 970.27 970.06 969.86 969.58		{P <sub>3</sub> 28	Q, 12			Q <sub>3</sub> 10
08,331 08,417 08,509 08,593 08,699	1 2 1d 1d	3 13 3 12 3	969.41 969.26 969.11 968.97 968.78	Q <sub>1</sub> 18	Q <sub>2</sub> 15				Ω <u>м</u> 9
08.795 02.883 08.950 09.166 09.216	1 4	3 6 6 4 10	968.63 968.50 968.37 968.01 967.92		R <sub>2</sub> 7 Q <sub>11</sub> 15 P <sub>2</sub> 29	Q <sub>32</sub> 11			Ω, 9
09.503 09.552 09.552 09.654 09.740	176	3 3 9 12	967.68 967.44 967.36 967.18 967.04		R <sub>21</sub> 7	Ω <sub>3</sub> 11	R <sub>1</sub> 10		Ω <sub>32</sub> 3
09.859 09.912 09.943 10.098 10.159	1 3 1c	- 3 - 4 9	966.84 966.75 966.70 966.44 966.33	R, 10		Q <sub>32</sub> 10			
10.727 10.841 10.875 10.969 11.013	1 1 9	1 9 10 10c	965.38 965.19 965.13 964.98 964.90	P <sub>1</sub> 30	Ω <sub>2</sub> 14 S <sub>21</sub> 3	Q <sub>3</sub> 10			Ω <sub>3</sub> 3 Ω <sub>3</sub> 7

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7711.085 11.189 11.383 11.552 11.693	1 3 1 2 1d	10 4 6hd 3d 4	12 964.78 964.60 964.28 963.99 963.76	Q <sub>12</sub> 17	Q <sub>11</sub> 14	P <sub>3</sub> 27 Ω <sub>32</sub> 9 Ω <sub>32</sub> 3			C <sub>3</sub> 5
11.819 11.934 12.060 12.235 12.378	0 3 8 2	4 4 14 3 8	963.55 963.35 963.14 962.84 962.61	Q <sub>1</sub> 17	Ω <sub>11</sub> 14 R <sub>2</sub> 6	Ω <sub>N</sub> 8 Q <sub>4</sub> 9 Q <sub>34</sub> 4			
12.462 12.561 12.620 12.705 12.841	3 6 1 5	3 8 3	962.45 962.30 962.20 962.06 961.83		R <sub>11</sub> 6	C327 C3 3 C35 C36 C36			
12.961 13.037 13.104 13.209 13.270	1 1 4 1	34 4	961.62 961.50 961.38 961.21 961.10			Ω, 4			
13.347 13.451 13.547 13.610 13.742	9 1 6 5c 1	14 3 8 8	960.97 960.80 960.64 960.54 960.32		Q <sub>2</sub> 13	Q <sub>3</sub> 7 Q <sub>3</sub> 5 Q <sub>3</sub> 6 P <sub>3</sub> 26			
13.912 14.660 14.128 14.204 14.323	1 6	3 4 3 6 13	960.03 959.78 959.67 959.54 959.34	R <sub>1</sub> 9	Ω <sub>11</sub> 13 Ω <sub>21</sub> 13 P <sub>1</sub> 29]				
14.457 14.519 14.596 14.709 14.850	1 1 4 1	4 6 3	959.11 959.01 958.88 958.69 958.45		R <sub>2</sub> 5		Q <sub>1</sub> 15	R <sub>M</sub> 5	
14.927 15.065 15.104 15.192 15.276	1 5	8 4 4 3	958.32 958.09 958.03 957.88 957.74		8 <sub>21</sub> Z				
15,306 15,360 15,408 15,530 15,659	1 9 3 0	12 13c 10	957.68 957.60 957.51 957.31 957.09	Q <sub>L</sub> 16	R <sub>21</sub> 5 Q <sub>2</sub> 12				
15.740 15.968 16.097 16.221 16.406	1d 1	3 4 3 12 4	956.96 956.58 956.36 934.15 955.84	,	Q <sub>21</sub> 12 Q <sub>23</sub> 12	P <sub>3</sub> 25			
16.613 16.778 16.949 17.115 17.157	0	3 . 3 . 3	955.49 955.22 954.93 954.65 954.58	P <sub>12</sub> 28					

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	1	Į,	•		2-0		8-1	7	7-6
7717.361	3	3	12 954.25		R <sub>C</sub> 4				
17.445	1	1 12	954.09 953.93		O <sub>2</sub> 11				
17.684	0	9	953.70	P <sub>1</sub> 28	1				
17.645	1	•	953.45	Ω <sub>12</sub> 15			R <sub>1</sub> 8		
17,942		. 3	953.26						
18.023	1	8	953.12 952.89		R <sub>22</sub> 4 P <sub>2</sub> 26				
18.274	2	6	952.71		Q <sub>21</sub> 11		Ω, 14	1	
18.428	5	8	952.44	R <sub>1</sub> 8	Ω <sub>23</sub> 11				
18.506		8	952.32			P <sub>3</sub> 24			
18.583	3	14	952.19	Ω <sub>1</sub> 15		·			1
18.772		3	951.87 951.67					R <sub>2</sub> 3	
19.017		4	951,46				-		
19.094	1	3	951.32		1				
19.183	6	6	951.18		Su 1				
19.283	5	3 8	951.01 950.86		Q <sub>2</sub> 10	P3 4			
19.498	ĭ	3	950.65		142	4,1-		R <sub>21</sub> 3	
19 661	١, ا	3	950 38				,		
19.661	4	4	950.38 950.11		R2 3				
19.978	1	3	949.85						
20.093	2	6	949.65 949.57	P1227	Q <sub>21</sub> 10				
i	١. ا								
20.240	2	3	949.40 949.21		Ω¤16				
20.467	9	8	949.02		R213				
20.603		11	948.80 948.62			P <sub>3</sub> 23			R <sub>1</sub> 31
Ì		l					l		44 21
20.796	0	11	948.47 948.34	Q <sub>12</sub> 14	P <sub>2</sub> 25 P <sub>1</sub> 27]	!	•		
21.026	7	ii	948.09	~12	Ω, 9		•		
21.187	0	1	947.81					•	
21.342	]		947.56	'			1	]	
21.470	0	3	947.34	,		1			
21.541	3	12	947.22 947.06	Q <sub>1</sub> 14		}	Ω <sub>1</sub> 13		
21.761	4	4	946.85		Ω219	P3 5	l		
21.902	3	6	946.62	1	Ω <sub>23</sub> 9		R, 7		
22.111	2	_	946.27	I	R <sub>2</sub> 2		•		
22,239	0	3	946.06 945.86	1	•	•	1	1	3
22.454	9	11	945.69	R <sub>1</sub> 7				1	
22.505	6	11	945.61		.C2 8	P, 22	1	1	
22.628	1	3	945.40	l			l	1	٠.
22.742	6	1 1	945.21 945.05	l	R <sub>21</sub> 2	l	l	1	
22.944	3	3	944.87	1	S <sub>21</sub> 0	Į	1	1	<b>I</b> .
23.100	1	l	944.61	1	1	l	ł	1	
23.154	l	3	944.52	P1126	l	Į	ł l	1	
23.249	30	8	944.36	]	Q18	Pa 24]	]		
23.295	3	4	944.28		Ω238	l	ı	1	
23,521	0	3	943.91	1	-	1		1	Į į

4.265   2bd   3   942.66   4.397   1   3   947.41   4.501   5   4   942.26   4.562   5   14c   942.16   Q <sub>6</sub>   13   Q <sub>21</sub> 7   4.562   5   14c   942.16   Q <sub>6</sub>   13   Q <sub>21</sub> 7   Q <sub>11</sub> 5   4.664   5   8   941.95   4.757   1   941.83   Q <sub>11</sub> 6   Q <sub>12</sub> 6   6   941.71   Q <sub>11</sub> 6   6   941.71   Q <sub>11</sub> 6   6   941.21   Q <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6   G <sub>11</sub> 6	<b>x</b>	1	Į,	•	Classification 2-0			8-7
3.789 8 9 9 943.45 3.866 2 9 943.45 3.866 2 9 943.45 3.866 2 9 943.45 3.866 2 9 942.92 4.008 1 3 943.09 4.196 4.266 4.265 25dd 942.266 4.562 5 14c 942.26 4.562 5 14c 942.26 4.625 1 8 942.26 4.625 1 941.95 941.95 941.95 6 941.71 4.832 6 6 941.71 941.83 4.832 6 6 941.71 941.83 942.41 00.26 5 0.525 1 10 940.55 0.55.25 1 10 940.55 0.55.25 1 10 940.55 0.55.25 1 10 940.55 0.5632 6 6 990.37 0.55.25 1 10 940.55 0.609 1 6 939.74 6.194 1 3 939.42 0.55.25 1 10 940.55 0.609 1 6 939.74 6.194 1 3 939.42 0.55 0.609 1 6 938.83 0.6009 1 6 938.83 0.6009 1 6 938.83 0.6009 1 6 938.83 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 1 0 938.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6009 1 0 930.00 0.6	7723 627	<del>                                     </del>	-	12 042 70				
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4.008 1 3 942.09 4.1096 1 4 942.74 4.219 11 942.74 4.265 2bd 942.66 4.562 5 14c 942.26 4.562 5 14c 942.26 4.625 1 941.95 4.625 1 941.95 4.757 1 941.83 4.832 6 6 941.71 4.919 5 6 941.56 5.048 0 3 941.71 4.919 5 6 941.56 5.543 6 6 940.75 5.543 6 6 940.75 5.543 6 6 940.75 5.543 6 6 940.75 5.632 6 6 940.75 5.632 6 6 940.75 5.632 6 6 940.75 6.099 1 3 939.99 6.194 1 3 939.42 6.297 1 3 939.99 6.194 1 3 939.26 6.376 7 8 939.12 6.462 1 3 938.98 6.552 6 6 938.83 6.652 6 6 938.83 6.552 6 6 6 938.83 6.552 6 6 6 938.83 6.552 6 6 6 938.83 6.767 7 8 939.12 6.462 1 3 938.98 6.552 6 6 6 938.83 6.767 7 8 939.12 6.462 1 3 938.98 6.767 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						142 /	~ .	ŀ
4.196			3		Ciara		25 0	
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4.265   Zbd   3   942.66   4.397   1   3   947.41   4.501   5   4   942.26   4.562   5   14c   942.16   Q <sub>6</sub>   13   Q <sub>21</sub> 7   4.562   5   14c   942.16   Q <sub>6</sub>   13   Q <sub>21</sub> 7   Q <sub>11</sub> 5   4.664   5   8   941.95   4.757   1   941.83   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5   Q <sub>11</sub> 5	24.190		3	942.92				•
4.265   2bd   4.397   1   3   947.41   942.26   4.501   5   4   942.26   4.562   5   14c   942.16   Q <sub>2</sub>   13   Q <sub>21</sub>   7   Q <sub>21</sub>   4.562   5   14c   942.16   Q <sub>2</sub>   13   Q <sub>21</sub>   7   Q <sub>21</sub>   4.664   5   8   941.95   Q <sub>21</sub>   6   941.71   Q <sub>21</sub>   6   941.71   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   Q <sub>21</sub>   6   941.21   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>   Q <sub>21</sub>	24.219		11	942.74			P <sub>2</sub> 21	
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7728.776	<del>                                     </del>	3	12 935.10							
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28.956		3	934.80							Ω, 37
29.023	1	١	934.69							ì
29.072		11	934.61			P <sub>3</sub> 17				1
29,130	1	1	934.51	1 :	( )					} {
29.184		3	934.42	}	ł j			Q <sub>2</sub> 38		1 1
29.264	3Ъ	6	934.29			P, 10				
29.311	14	6c 8	934.21 934.01	O <sub>12</sub> 11 P <sub>1</sub> 24						.
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29.526 29.671	9	6c	933.75 933.61	1	Ω <sub>23</sub> 1		R <sub>1</sub> 5		-	i i
29.700	3	1	933.55			1				l
29.770	lc		933.44	1		P, 16				
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29.853 29.944	4	3	933.15	l		P3 11				
30.032	9	13	933.00	Q <sub>1</sub> 11						
30.130	1	3	932.83	1 .						1
30.213	9	8	932.70	R <sub>1</sub> 5						
30.259	1	10c	932.62	1 .		P <sub>3</sub> 15		ŀ		1
30.290	1	i	932.57	•						į l
30.374	2	9	932.43	1		P <sub>3</sub> 12	Q <sub>1</sub> 10			1 1
30.445 30.519	1	8	932.31 932.18	i	1	P <sub>2</sub> 14	1			
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30.563	3	9	932.11	1		P <sub>3</sub> 13				l i
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31.866	3	3	929.93	Q <sub>12</sub> 10	]			I	1	
31.959	l	12	929.78	P, 23	1			•		
32.081	1	1	929.57	1	[ ·			1		
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32.350	l	34	929.13	1	1			1	i	1
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32.692 32.766	1	1 4	925.56 926.43	i	1			ŀ	l	
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33.687 33.823	li	8	926.89	1	PEls	1	<b>}</b>	1	1	1
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34.039	1	١.	926.30	1	1 -		1	1	Ì	]
34,101	1	3	926.19		1	1	l	1	ł	<b>!</b> !
34.198	2	8	926.04		P <sub>2</sub> 4	P <sub>2</sub> 18]	1	l	1	1 1
34.319	5	10	925.84	Q129	P <sub>1</sub> 22]	l - '	l	5	ĺ	
34.546 34.680	1	3	925.45 925.23	1	1	1	ļ	1	1	1 ,
34.862	14	3	924.93	1	l		1	1	1	R, 28
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7735.040	10	13	12 924.63	Q 9	P2118					
35.170	8	3	924.41	1	P234	}			,	
35.266 35.353	3	, '	924.25 924.10	l	P2 5	1	1			
35.389	1	10	924.05	l	P <sub>2</sub> 17			(		[ ]
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35.513 35.575	1	3	923.85 923.74	ł	ļ					
35.697	1	3	923.53		1	i :	O <sub>1</sub> S			
35.816	0	7	923.33	P <sub>12</sub> 21	1					[ }
35.921		1	923.16	1	1		ì			Ì
36.057	ld	3	922.93	1	Ì	ļ.				1 1
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36.249 36.285	10	9 9c	922.61 922.5 <b>5</b>	7	Pp17					
36.341	1	, ,	922.45	i	P <sub>20</sub> 5	<b>f</b>	<b>j</b>			
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36.390 36.438	0	6 6e	922.37 922.29	1	P <sub>2</sub> 16				1	
36.549	i	11	922.11	P <sub>1</sub> 21	<b>J</b> .	]	]			
36.666	4	4	921.91	Q <sub>12</sub> 8	1	1				
36.798	3	6	921.69	l	j	I	<b>!</b>	Q <sub>1</sub> 37	•	
36.921	1		921.48	1	•	]	R <sub>2</sub> 3			[ [
36.981		3ъа	921.39	[	į	1 1				[
37.056	1	4	921.26	1	D -					Ì
37.149 37.237	4 8	10	921.11 920.96	i	P <sub>2</sub> 7 P <sub>2</sub> 6	P <sub>2</sub> 16]				
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37.318 37.383	9	9	920.82 920.72	0. •	PB16					I
37.522	ï	3	920.12	Q <sub>1</sub> 8	l			! !		
37.594	. 1	3	920.36					1		1
37.664	10	7	920.25	R <sub>4</sub> 3	O <sub>23</sub> 3					
37.790	2	3	920.03		P <sub>2</sub> 8			1	٠	1
37.860	1	8	919.92		P <sub>3</sub> 14		1 1			1
37.95%	,1	.4	919.75	P <sub>17</sub> 20	•		0,7		]	
38.054 38.160	10	11 3	919.60 919.42		P237				1	
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38,451	1	3	918.93							j
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38.571	- 1	9	918.73		P <sub>3</sub> 12				ì	•
38.624	_ 1	9c	918.64	P <sub>1</sub> 20	P <sub>2</sub> 11		1	i	- 1	1
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7739.778 39.924 40.038 40.036 40.236	04	8 1 2 3	12 916.72 916.47 916.28 916.20 915.95	P <sub>13</sub> 19	•	Q <sub>i</sub> 6				
40.398 40.312 40.635 40.769 40.894	1 5	3 12 3	915.68 915.49 915.28 915.06 914.85	P <sub>1</sub> 19	ი <sub>თ</sub> 4	R <sub>1</sub> 2				
40.941 40.985 41.094 41.181 41.283	1	3 4 4	914.78 914.70 914.52 914.37 914.21	Ω <sub>12</sub> 6 R <sub>1</sub> 2						
41.414 41.538 41.653 41.797 41.894	10	3 3 10	913.99 913.78 913.59 913.35 913.18	P <sub>22</sub> 18						R, 27
42.001 42.126 42.270 42.424 42.565	0	3 9 3	913.01 912.89 912.56 912.30 912.07	P <sub>1</sub> 18		Q <sub>1</sub> 5				
42.898 43.030 43.140 43.186 43.293	8	3 3 8 8c	911.51 911.29 911.11 911.03 910.85	P <sub>12</sub> 17 Q <sub>12</sub> 5						Ω. 35
43,367 43,447 43,565 43,632 43,752	ld 1	3	910.73 910.59 910.40 910.29 910.09		O <sub>25</sub> 5					
43.815 43.879 44.078 44.214 44.504	105	14 4 3 3	909.98 909.87 909.55 909.32 908.83	Q <sub>1</sub> 5	P <sub>1</sub> 17]	R <sub>1</sub> 1		R <sub>1</sub> 26 Q <sub>1</sub> 36		
44.611 44.717 44.830 44.925 45.010	8	6 3 4	908.66 908.47 908.29 908.13 907.99	P <sub>12</sub> 16 R <sub>2</sub> 1						
45.118 45.200 45.336 45.491 45.586	5 1 0	3 9 3 1	907.81 907.67 907.45 907.21 907.03	Ω <sub>12</sub> 4 P <sub>1</sub> 16			;		•	•
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7746.259	1d	1	12 905.91						Γ	
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47 (71		١.							l	i
47.671	1	3	903.56	١ , , ا		P <sub>1</sub> 10			<u> </u>	1
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48.153	3	10	902.76	P:213					<b>!</b> .	
48.266	4	3	902.57	R, 0				ŀ	1	
48.363	ō	1	902.40			Q <sub>1</sub> 2		1	1	
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48.697	1	1	901.85	1				ł .		
48.752		4	901.76	1					•	R, 26
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40.071		۱.	001 22					Ì	1	1 1
49.071	6	8	901.23	P1212	Q <sub>12</sub> 2]				1	1 1
49.162	1	3	901.07							1 1
49.250	8	6	900.93 900.66		O <sub>23</sub> 7	~			Į į	
49.517	•	3	900.48			Pig				1
1 37.5.1			700.70						į .	
49.591	1	3 .	900.36							i
49,697	9	6	900.19	Q <sub>1</sub> 2					ì	
49.808	3	8	900.00	P <sub>1</sub> 12						1
49.881	6	9	899.87	P <sub>12</sub> 11		l		ļ .		1
49.993	0	4	899.69						<b>!</b>	Q <sub>3</sub> 34
1	. 1							İ		~,
50.102	1	3	899.51			Qıl	P <sub>1</sub> 7]			
50.314	0	3	899.16							
50.418	ld	3	898.98							
50.468	4	4	898.90	, a						
50.563	•	,,	898.74	P1210						
50.609	6	11	898.66	P <sub>1</sub> 11						
50.743	ĭ		898.44	Puli				}		
50.783	-	3	898.38	- 12	j					}
50.844	1		898.27							
50.919	5	1	898.15	Q <sub>12</sub> 1		. [		ļ		
1 1				"-		- 1	•			1
51.043	1	3	897.94			- 1			i i	
51.150	9	10	897.75	P129		P, 5	i			1
51.228	1	3	897.64	1					i :	
51.298	6	8	897.52	P <sub>1</sub> 10		- 1			[ :	
51.361	1		897.41	1	1					
51 47.7	1	4	997 30	ا ہے ا						
51.427 51.493	10	8	897.30	P1,10		ا نہ ہ		Q <sub>1</sub> 35		
51.571	1	ا ٽا	897.20 897.06	$\Omega_{2}$ 1		P <sub>1</sub> 4				ļ <b>1</b>
51.639	7	8	896.95	P128		i				1
51.705	i	۱ آ	896.84	1 1150	1	Ω, 0				
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2	I	ī <sub>2</sub>		2-0	)	Cla 8-7	ssification	7-6	
7751.754 51.817	5	4 3	12 896.76 896.65		O <sub>23</sub> 8	P <sub>1</sub> 3			
51.879 51.951 52.039	9 1 10	10 3 10	896.55 896.43 896.29	P <sub>1</sub> 9	P119]	P <sub>1</sub> 2 P <sub>1</sub> 1			
52.157 52.252 52.359 52.501 52.607	1 2 10 1 1	2d 10 3 9	896.09 895.93 895.75 895.52 895.34	P <sub>1</sub> 8 P <sub>13</sub> 8 P <sub>12</sub> 5	P116]				
52.682 52.751 52.799 52.877 52.940	1 10 10c 1 1	3 9 9c 8	895.21 895.10 895.02 894.89 894.78	P <sub>1</sub> 7 P <sub>12</sub> 4 P <sub>12</sub> 3	P <sub>13</sub> 7]				
53.040 53.091 53.172 53.244 53.306	9 9c 6 1	6 8c 4 8	894.62 894.55 894.40 894.28 894.18	P <sub>1</sub> 6 P <sub>12</sub> 1 Q <sub>1</sub> 0 P <sub>13</sub> 6 P <sub>1</sub> 5	P <sub>12</sub> 2]				
53.376 53.431 53.486 53.548 53.596	1 1 8 2 9	4	894.06 893.97 893.88 693.78 393.70	P <sub>1</sub> 4 P <sub>13</sub> 5 P <sub>1</sub> 3	P <sub>1</sub> 0]				
53.670 53.774 53.872 53.981 54.100	9 1 1 2 7	6 1 1 2 8	873.57 893.40 893.24 893.07 892.86	P <sub>1</sub> 2 P <sub>13</sub> 4 P <sub>13</sub> 3	P <sub>1</sub> 1]				
54.223 54.429 54.511 54.676 54.731	0 0	1 1d 0 1bd	892.66 892.31 892.18 891.90 891.81	P <sub>13</sub> 2		O <sub>12</sub> 1			
54.815 55.145 55.190 55.331 55.423	1	2 1 1 1 2	891.67 891.12 891.05 890.81 890.66					-	
55.495 55.659 55.800 56.022 56.059	1	4 1 2d 1d	890.54 890.27 890.03 889.67 889.60			O <sub>13</sub> 2			R <sub>3</sub> 25
56.164 56.257 56.386 56.523 56.610	1 9 1	? 1 1 5	889.43 889.27 889.06 888.83 888.69	0121	O <sub>23</sub> 10				Q, 33
56.706 56.792 56.967 57.053 57.301		1 1 3 1 2	888.53 888.39 888.09 887.95 887.44						

,							Classif	ication	- /	
λ	1	I <sub>2</sub>		2-6		8-1	<b></b> i		7-6	
7757.469	14	2	12 887.26		1 1	O <sub>13</sub> 3				
57.620		2	887.01		!!	-13		1 1		
57.687		2c	886.90		1			1		
57.728	0		886.83	0,,1	1					
57,771		1	886.76	_	1			1		
		1						1		
57.849	1	3	886.63		1 1			Li		
57.959	7	3	886.45	2ور0	1			f 1		
58.088	1	1	886.23		1 1					
58.163	1	ا ما	886.11					1		
58.246	5	£	885.97		O <sub>23</sub> 11			1		
58, 432	1	3	885.58					Ω <sub>1</sub> 34		
58.635	•	1	885.32					[ ×1 -7 ]		
58.758	14	1	885.12				1	1 1		
58.795		3	885.06		:	0,14		R, 26		1
59.001	1		884.71		1 1	-		"		
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59.128	2	1	884.50	0,,2						
59.348		3	884.14	-						
59.380	1		884.08	N <sub>13</sub> 2	1			1 1		
59.430		1	884.00	'	1 1	1				
59.520	2	5	283.85				)	i 1	Q <sub>2</sub> 33	
50 624	10	6	002 40		1 1			! !	!	
59.624	10	3	883.68 883.47	OND	1					
59.752 59.823	1	3	883.35		1			1		_
59.883	•	1	383.25					l i		
59.922	1	-	683.18		`			1		
2,,			002.00		1 1			1	,	
60.050	3	6	882.97		O <sub>20</sub> 12	0,25		1	!	
60.291		1	882.5					! !		
60.380	0	2	882.					1 1	i	
60.473		1	882.			ļ		1 1		
60.564	1	1	882		1 1			1		
(0.400	_		201 20		1			1		
60.653	5	2 2	881.97	O <sub>13</sub> 3	1 1			i 1		
60.813 61.018		2 d	861.71 881.37		1 1	1		1	į	
61.067		3 bd	881.29	•	1			,		
61.103	1	1	881.22		1 1					
013.05	1	*	307.25		!!			i	'	
61.233	8	5	881.00	0,24	) l	0,26	1			
61.437	1	i	880.67	- 26.	i i	- 44				
61.504		1	880.56		1					
61.558	1		880.47							
61.666	3	8	860.29		O <sup>21</sup> 13					
/		١. ١	000.00		1			. !		
61.785		1	880.10		} • 1	1				
61.816	1	1	880.04	1	] ]			•		
61.934 62.055	1	2	879.45 879.65		)					p. 14
62.128	•	ī	879.53	'	j !				:	R <sub>2</sub> 24
02.120		*	0,55		}	1		1		
62.210	3	2	879.39	0,,4	] ]					
62,308	i	2	879.23	-65-	) 1	0,27				
62.432		ī	879.0Z		j i	-46		! !		
62.486	1		878.93		j			[		
62.539		3	878.85		j 1	-		l i		
		ا ـ ا	!	'	1 1			1		1
62.664	١. ١	2	878.64		]					
67.727	1	ا . ا	878.53		j l					
62.816	10	8	878.38 978 19	0,25	N'13]					1
62,936 63,021	1	3	878.19 878.04		1 1	}	1	1		Q <sub>3</sub> 32
			010.03	ı			1	. (		133 34

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7763.100 1 4 12 877.91 O <sub>23</sub> 14	Clussification 8-7 - 7-	6
7763,100 1 4 12 877.91 On14		
63.188 1 877.77	0,17	
63.279 2 877.62 63.311 1 . 877.56	O <sub>12</sub> 8	
63.387 1 877.44		
63.604 1 877.07		
63,643 1 877.01		
63.752 5 3 876.83 O <sub>13</sub> 5 63.853 0 2 876.66		
63.978 3 876.46		
64.074 1 3 876.29		
64.121 3c 876.22	O118	
64.226 0 1 876.05 64.335 8 9 875.86 O <sub>12</sub> 6 O <sub>23</sub> 15		
64.335 8 9 875.86 O <sub>12</sub> 6 O <sub>23</sub> 15		
	• • •	
64.608 1 875.41		
64.756 1 875.17		
64.866 1d 1 874.98 64.987 3 874.78	O <sub>12</sub> 10	
65.037 2c 874.70	1 1 1	
65.085 1 874.62		
65.170 2 874.48		
65.249 3 2 874.35 O <sub>19</sub> 6 55.351 5 874.18	0.23	
65.399 1 4 874.10 O <sub>21</sub> 16	Ω <sub>2</sub> 33	
3,10		
65.461 2c 874.00	0,,11	
65.564 1 873.83	_	
65.621 1 - 873.74 65.652 1 873.68		
65.782 10 8 873.47 O <sub>12</sub> 7		
65.910 4b 873.26	R <sub>1</sub> 25	
65.984 1 873.13		
65.066 4 872.99 66.200 3 2 872.77 N.4		Ω <sub>2</sub> 31
66.200 3 2 872.77 N <sub>13</sub> 4 66.289 1 8 872.62 O <sub>23</sub> 17		ĺ
OB.		l
66.386 1 872.46		
66.484 2 872.30		l
66.552 1 872.19 -66.597 1 872.11		
66.687 4 871.96 O <sub>13</sub> 7		l
	1 1	ì
66.703 5 871.94 O2325		
00.7981 3 871.78		
		ļ
66.990 4 871.46 O218	1 1	1
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67.160 6 6 871.18 O <sub>12</sub> 8		ł
67.289 3 870.97 67.341 2 870.88 Ou24	1 1	ł
67.341 2 870.88 O <sub>22</sub> 24 67.408 1 870.77	1 1	]
67.503 7 870.61 O219	(	Ì
	1 1	1
67.609 0 1 870.44		}
67.708 4 870.27 0 <sub>32</sub> 23 67.828 4 870.08 0 <sub>32</sub> 23	<b>§ E</b>	l
	1 1 .	l
67,925 2 869,92 0 <sub>22</sub> 2 67,964 6 869,85 0 <sub>22</sub> 1	<b>, t</b>	i
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	λ	1	14	,	2-			7-6	
	7768.058	2	1	12 869.70	0138	1	1		
ł	68.151 68.271	1	2	869.54 869.34	01227		l	İ	ł
1	€8.394	ł	4	869.13	ì		ł	1	R, 23
	68.466	9	8	869.02	0,29		Į	l	
į	68.642		1	868.73	1	•	•	1	}
1	68.827	1	] 2	668.4Z	Ī	<b>i</b> :	ř	l	]
1	68.935		1	868.24			i i	i	
1	69.044 69.151	1	2	868.06 867.88	ŀ	ŀ	l	1	
1		}	-		l		l	l	j i
	69.193	1.	6	867.81	l		i	[	
1	69.247 69.351	3	3	857.72 867.55	0139		1	•	Q <sub>3</sub> 31
١	69.459	ī	1	867.37	-13,		٠		1
1	69.562	4	3	867.2 <b>0</b>	N <sub>13</sub> 5 .	1	l	1	
١	69.677	4	6	867.01	0,,10			i	
1	69.922	1	14	866,61			1	1	
ı	70.044	0	2	866.40	1	ļ.		1	]
ı	70.227 70.396	.1	2d	866.10 665.82	1	i		i	
ı		l .			l			1	1
١	70.556	2	1 3	865.55	01110			1	
١	70.612 70.789	5	9	865,46 865,17	O <sub>12</sub> 27 O <sub>12</sub> 11			1	] }
1	70.961	1	1	864.88	414		į		
1	71.099		1	864.66				l	
1	71.208		2	264.48		•		ł	
1	71.262		lc	864.39			•	l	
ı	71.445 71.583		3	864.09 863.86					1 - 1
١	71.672	2	3.	863.86 863.70	O <sub>23</sub> 11		ŀ		
ł	a		,	262.42					
1	71.802 71.920	3	6	863.49 863.30	O <sub>12</sub> 12			Į	1 1
ı	71.958	2	•	863.23				<u> </u>	1 1
ı	72.039		4	863.10			Ω <sub>1</sub> 32	Ì	1
١	72.164	1		862.99			ŀ	1	1 1
1	72.254	lbd	2bd	862.74			l	1	1
-	72.409 72.508		6	862,49 862,33				G 31	1 1
I	72.599	١ !	4	862.17	0,,25			l	
1	72.690	3	8	862.02	O <sub>12</sub> 13	O <sub>13</sub> 12]		!	}
1	72.783	1		861.87				l	
,	72.833	•	2	861.79			R <sub>1</sub> 24	1	
-	72.887	3	Zс	861.70	N <sub>13</sub> 6	]	•		1 1
1	73.061 73.312	1	¹bd 4	861.41 861.00				İ	
1									[ ]
	73.465	2	6	860.74	0,,14	O <sub>12</sub> 24]			
١	74.562 73.509	1	3	860.58 860.53	0,13				
	73.669	-	1	860.40					
	73.789	ł	3	860.21					
1	73.840	14		860.12					
١	74.021		2	859.82					
١	74.116   74.220	2	9	859.67 859.49	01215				
١	74.332	0	i	859.31	0,,14				1
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l l	1	ī <sub>2</sub>		2-0		laosifica: 	7-6	• •
7774.439 74.553 74.628	0	1 3 5	12 859.13 858.94 858.82	0,,16				R, 22
74.669 74.863 74.996	14	4c 2	858.75 858.43 858.21	O <sub>LZ</sub> ?2	0.167			
75.041 75.131 75.249		7 1 7	858.13 857.98	O <sub>12</sub> 17 O <sub>12</sub> 21	0,,15]			6. 10
75.328 /5.319	,	6	857.79 857.66 857.51	O <sub>12</sub> 18 O <sub>12</sub> 19	O <sub>12</sub> 20]		i i	C'3 30
75.455 75.611 75.734 75.830		2 1 1 2	857. 43 857. 19 856. 99 856. 83					
76.030 76.172 76.319 76.557 76.702	4 0 1	1 3 1 1	856.50 856.27 856.02 855.62 855.38	N <sub>13</sub> 7				
76.805 76.879 76.954 77.372 77.497		1 2 1	855.22 855.10 854.97 854.28 854.07					
77.652 78.060 73.192 72.544 78.648		3 · 1 0 7 1	853.82 853.14 852.93 852.34 852.17			Q <sub>1</sub> 31	Q <sub>2</sub> 30	
78.739 79.259 79.411 79.589 79.656	1 2	2 1 2 5 3	852.02 851.17 850.91 850.62 850.51	N <sub>13</sub> 8		R <sub>1</sub> 23		R <sub>32</sub> 21
80,022 80,192 80,353 80,495 80,637		1 2 1 4 1	849.90 849.62 849.36 849.12 848.89					R, 21
80.789 80.966 91.092 81.235 81.377		1 6 1 1	848.64 848.34 848.14 847.90 847.67					Ω, 29
81.576 8i.902 82,438 82.565 82.671	3	2 2 1 2	847.34 846.80 845.92 845.70 845.53	N <sub>13</sub> 9		,		
83.085 83.314 83.402 83.679	0	1 3 2 . 1 2	845.03 844.85 844.47 844.32 843.87			ø		

<sup>#</sup> Lines marked thus have been classified as belonging to the n+4  $\Rightarrow$  3 band of the Y<sup>3</sup> $\Sigma$  > B<sup>3</sup> $\Pi$  system

1						<i>.</i>			
	λ ,	I	I <sub>2</sub>	٧	2-		Classific.	ation 7-6	
	7784.052 84.170 84.382 84.518 84.643		1 2 1 6 2	12 843.25 643.06 842.71 842.48 842.28				Q <sub>2</sub> 29	
	84.765 84.872 85.263 85.410 85.656	1d 2d	1 1 1 1 1 2	842.08 841.90 841.25 841.01 840.61	N::10		Ω <sub>1</sub> 30		R <sub>32</sub> 20
	85.787 85.858 85.926 86.043 86.176	1	1 1 3	840.39 840.27 840.16 839.97 839.75			R <sub>1</sub> 22	R <sub>2</sub> Z1	•
	86.242 86.316 86.400 86.503 86.632	0	3 1 3 2 1	839.64 839.52 839.38 839.21 839.00					R, 20
	86.705 86.924 87.031 87.205 87.451	1	4 1 2 3 1	838.87 838.51 838.34 838.05 837.64					Q <sub>3</sub> 28
	87.588 87.644 87.787 87.916 88.083	1 1	1 1 2 2 1	837.42 837.33 837.09 836.88 836,60					
	88,212 88,398 84,503 88,562 88,653	1d 2	1 1bd 1 2	836.39 836.08 835.91 835.81 835.66	N <sub>13</sub> 11				
	88.731 88.776 83.918 89.017 89.087	2	2 1 2	835.53 £35.46 835.23 835.06 834.95					
	89.325 89.548 89.893 89.938 90.131	1	1 1 - 2	834.56 834.19 833.62 833.52 833.23			,		Í
	90.290 90.407 90.502 90.610 90.744	1 1	5 1 4 1	832.96 832.77 832.62 832.44 832.22			# #	Q <sub>2</sub> 28	1
	90.820 90.919 91.014 91.171 91.547	1 2 1	1 2 6 2 1	832.10 831.93 831.78 831.52 830.90	Nu12		O <sub>1</sub> 29	`	R <sub>33</sub> 19

			,	<del>,</del>	<del></del>		· 	
	1	1	I <sub>e</sub>		2-0	Class	ification 7-6	
	7791.640	1	1	12 830,74	1	1		
	91.716	l	3	839.62	1	•	R <sub>2</sub> 20	1
	91.760	1	5	830.54	1	i	1	R, 19
	91.872	1	1	830.33	i	1	1	, , ,
	91.985	1	12	830,17	1	1	i	1
	02 122	1	6	i	i	Į.	1	[
	92.133 92.282	Ì	2	929.93	Ì	Į.	1	Q, 27
	92.440	í	2	829.69 829.43	i -	1	1	1
	92.560	2	1 -	829.23	1	1	Ì	1
	92.595		5	829.17	1	R, 21	i	I
	Ī	Ì	1		ł		1	1
	92.693	1	1	329.01	I	!	ļ	ł
	92.801	i	1 1	828.83	1	ł	i	1
	92.888	ł	2	828.69	1	1	j	1
	93.073	1 _	1 :	828, 38	ì	•	1	1
	93.111	3	1	828.32	1	] #	1	1
	93.308	l	1	· 828 JO	ļ	ł	i	i
	93.351	1	1 .	827.93	1	1	1	}
	93.518	Ž	0	827.65		1	1	1
	93.723	-	114	827.31	1	i	i	I
	94.004		1	826.85	ļ	1	l	1
	1	1	1 1		1	ŧ	1	1
	94,124		1	826.65	ł	{	1	i
	94.181	1		826.56	1	l	l	1
	94.245		1	826.46	1	I	l	1
	94.281 94.375	1 1	2	826.40		ł	1	i
	74.313		1 - 1	826,24	Nu13	Ì	1	1
	94.477	ļ	2	826.07		i	]	]
	94.650	3	3	825.79	•		i .	ł
	94.750		3	825.61		1	Ì	1
	94.922		3	. 825,34		l		}
	95.137		1 1	824.98	<b>i</b> .	l	1	l
	05.554		ا ا		<b>,</b>			l
	95.554	1	Ibd	824.30				1
	95.656 95.720	0	164	824.13 824.03	l i			}
	95.870		1	87.3.79			0.37	•
	95.988		ł i l	823.59			Ω, 27	}
			1 1					
	96.255		2	8Z3.15				R <sub>32</sub> 18
	96.509	2	1	822.73		•		1
	96.606		3	822.31				1
	96.656		2	8ZZ.49				ŀ
	96.872		1	822,22				ŀ
	96.902	3	1 1	822.08		4		
	96.971	_	4	921.97		O, 28		
	97.087		3	821.78				R, 18
	97.185		1	821_62				
	97.350	,	5	821.35				Q, 26
	67.401		١.١					
	97.481		1 1	821.13			Q <sub>2</sub> 19	
	97.818 97.997	1	1	820.58				
	98.095	•	ż	820.28 820.12				
	98.180		2	319.98				
j	1		- 1	,,,,				
1	98.265	- 1	3	819.84		1	1	
1	98.443		2	819.55				
ļ	98.529	0d	.	619.41				
ļ	98.621	į.	1	819.26				
ì	98.745		1	819.05				

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λ	1	ī,	v	Classifica 7-6	ation	λ	I	I,	v	Clas	ssifica 7-6	tion
7798.842		3	12 818, 89	R <sub>1</sub> 20		7807.183	1	4	12 805.20		1	Q, 2
98,923	Z	i	818.76		1 1	07.229	ı	Žc	805.13			P-3 4.
29.064	ĩ		818,53	1 1	1 1	07.200	1	1			1 1	ŀ
99.112	•	1	818.45		1 1	07.299 07.402	l	ĺż	805.02		1	!
99.303	5	i	818.14		1 1	07.653	3		804.84		1	
77.303	-	•	010.14	7	i i	V., 43.	13	Ibd	804.59			
99.618		1	81 <i>7.6</i> 2	i i	1 1	07.66Z	Í	z	804.41			
99.906		1	817.15	1 1	1 1	08.213	Oa	Ī	803.52			
7800.045		1	816.92		1 1	03.359	1	6	803.26	Q <sub>1</sub> 26	1 1	1
UO.182		ī	816.69	1 1	1 1	08.403	0	5c	803.19	MI	Rg 17	
00.305		2	816.49	1 1	1 1	08.530	1	l i	802.99	#		
	_			1.1	1 1		١	•		_		l
00.426	2	1	816.29		1 1	08.637	34		802.81			ļ
00.579	0	1	816.04	1	1 1	08.757	2	0	802.61	•		Ĭ
00.832	İ	2	815.63	1	1 1	08.881	1		802.41		1	ŀ
01.061		1	815.25		1	08.981	1	0	802.25	#	1	Ì
01.246	0	4	814.94	Q <sub>2</sub> 26	1 1	09.122	1	4	£02.02		R <sub>21</sub> 17	l
01.356		2	814.76	1 1	R <sub>32</sub> 17	09.239	l	1	801.93			!
01 >16	ļ	ī	814.50	1 1	×	09.276	1160		801.77			1
01.643		2	814.29	1 1	1 1	99.337	1	4	801.67		1	S <sub>12</sub> 1
01.897	2	24	213.87		1 1	09.434	13	l i	801.51	•	1	٠ ووم
02.065	_	ī	813.60	1 - 1	1 1	09.665	1 bd		601.13	'		ı
				1	1 1	}		ł		!		Ì
02.202		5	813.38	1	R, 17	09.729	1	1	801.62			
02.280		1	813.25	i (	1	10.197	l	1	£30.26			l
02.371		6	813,10		Q, 25	10,267	14	١.	800.14	•	1	I
02.476		1	812.92		l i	10.421	0	1	799.89		1 1	ı
02.580		4	812.75	P. 37	{ {	10.826	3	0	799.39	(		ļ
02.673		1	812.60	1	1 1	10.810	1	5	799.25	R <sub>1</sub> 18	•	ł
02.761		6	812.45	O <sub>1</sub> 27	1 1	10.916	Í	12	799.08	74.0	1	R <sub>32</sub> 1
02.592		ī	812.24	1 -,	1 1	11.333	1	[3	798.40	1	1 :	L.×.
03.038	ĺ	2	812.00	R <sub>2</sub> 13	1	11.397	2 z	1	798.29	#	1	1
03.191	ļ	1	811.75		1 1	11,445	_	4	798.21	-	Q <sub>2</sub> 24	1
				1		l .	1			1		ı
03.408	1	2	811.40	1 1	1 1	11.632	}	1	797.91	•	; ;	
03.621		1	811.05		1 1	11.772	Ī	?	797.68	ł	[R, 15	O <sub>3</sub> Z
03.724	1	2	810.68		1 1	11.875	1	13	797.51	ļ	l i	
03.760 03.880		ž	810.82 810.62	1 1	1 1	11.981	1	114	797.34	j		
03,000	ļ	-	0.0.02	1 1	1 1	1	1	1.0	171.00	}	1	
04.005	l	2	810.42	i I	5,211	12.552	i	1	796.40	ł	1	l
04.194	١.	1	810.11	_	1. 1	12.885	1	1	795.86	1	1	Ī
04.278	1		809.97	# {	1	13.008	1	3	795.65	1	1	1
04.378		2	809.80	1 . 1	1 1	13.203	1	C	795.33		•	l
04.501	1		809.60	•	1 1	13.473	1	14	794.39	i i	1 :	
04.612		1	809.42			13,577		2	794.72	1	R <sub>2</sub> 16	
04.676	5	l i	809.31		1 1	13.696	i	2	794.53	i .	1-3 -0	l
04.919		1 5	808.92	54 19	1 1	13.791	1	9	794.37	Ω1 25	1	1
05.048	į .	١ī	808.70		1 ]	13,912	1	13	794.17	P <sub>1,</sub> 35	1	1
05.279	ļ .	i	808, 32	1 1	]	14.236	1	ľ	793.64		1	l
05 485	i	١.	007.00	1 1	1 1	1	1	١	ì	1	1	1
05.488 05.641	l	1 3	807.98 807.73	1 1	1	14.279	1	2d 2	793.57 791.37	1	1	
05.788		1164		1 1	; !	14,580	İ	2		ŧ	1	S32 9
66.034	1	14	807.07	1 1	į į	14.818	ı	1	793.08	i	1	ı
06.218		1 2	806.77	1 1	R316	14.92	136		792.69	}		1
		ł	1		1 1	1	1		}			
06.443	1	7	805.41	O <sub>2</sub> 25	i l	15.126	١.	2	792.18		Ì	l
06.615	l	1	606.13	; !	1	15,162	12	1.	792.13		i i	I
	ı	2.	805.93	<u> </u>	: !	15.244	1	1	791.99	ł	į .	j
06.737 06.856	ł	1 1	805.72	f !	, ,	15,334		12	791.84		)	Q <sub>22</sub> 2

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	7815.626		1	12 791.37		Ţ	1	7822.797	.	2	1.2.22		T-	<del>-</del> -	ᅥ
-	15.715	1	3	791.22	1 1	Į.	1	22.874		1	12 779.6		1	1	1
	15.820	1	11	791.05	1 1	1	Н	22.977		li	779.5		1		- 1
1	15.921	2	2 d	790.89	1 1	1	1	23,138	1	li	779.3		1	ı	- 1
.	16.070	1	1	790.64		1	П	23.308		lż	778.8		ĺa. 1	4	- 1
. 1	16.173	1	6	1	1 · 1	1	П		1	1	1	- 1	R <sub>2</sub> 1	-	1
- 1	16,244	1	7	790.47	1 1	Q, 22	: [ ]	23.396		1	778.60	. !	1	1	- 1
- 1	16.457	1	li	790.35 790.01	$\Omega_2$	23 R, 14	Ш	23.492		2	778.51		i	1	- 1
- 1	16.513	Ob		789.91	1 1	1	Н	23.581		1	778.34		1	1	- 1
ļ	16.563	1	16	789.83	Rt 17	1	П	23.625		1_	778.29		ı	1	1
- 1		1	1	1	1-4 - 1	-1	11	23.742	1	2	778.09	1	1	S12 7	1
- 1	16,664	ì	1	789.67	1	1	11	23.829	1	1	222.00	. 1	1	1	- (
Į	16.926	2b		789.24		1	11	23.939		li	777.95		1	1	1
- 1	17.103	1	11	788.95	1	1	П	24.031		lî	777.71		1	1	Ţ
- 1	17.290 17.710	ļ	11.	788.64		1	Н	24.095		17	777.52		3	1	- [
- 1	11.710	1	14	787.96		1	П	24.205		1	777, 34		Ί	1	1
- 1	17.846	6	2	787,73	4	1	11		1	1	1	1	1	1	1
- 1	17.979	ľ	lī	787.52	*	i	11	24.297	1	14	777.19		[Q <sub>3</sub> 20	R, 1	2
- 1	18,049	1	li	787.40	1	1	П	24.367	1	12	777.08		1	1	1
H	18,153	0	2	787.23	ł	1	11	24.469	1	4	776.91	P1 3	3	T314	1
ł	18.280	3	14	787.02		- 1	11	24.805 24.864	1	1	776.36	1	1		1
i		١	١.	1	- 1	1	11	24.004	1.		776.26	1	ı	1	1
1	18.442	04	2	786.76	1		11	24.962	1	7	776.10	1	1	1	1
ı	18.544 18.690	İ	14	786.59	R <sub>2</sub> 1	5	П	25,110	1	i	775.86	1	i	1	1
ı	18.809	1	2	786.35	- 1	1	П	25.239	1	7	775.65	ł	Q2 2	ıl	1
1	18.850	1	1~	786.16 786.09	į	1	Н	25.347	0	1	775.48	1		]	1
1			1	700.07	- 1		П	25.458	1	1	775.29	1	ì	1	1
1	18.711	}	1	785.99	1	T315	Н	35 630	1.	Ι.		ł	1		1
ı	19.033		4		Ω, 24	-31-	П	25.630 25.701	1	1	775.01	i	1	1	1
i	19.119		1	785.65		1 1	П	25.796	26	1 2	774.90 774.74		[	1	1
1	19.206	2	1	785.51	1	S <sub>32</sub> 2	1	25.959	1	lī	774.48	1 '	ł	1	1
1	19.276		4	785.40	P <sub>1</sub> 34 R <sub>21</sub> 1	5		26.025	1	li	774.37	i	1	i	1
1	19.427		1	705 15	- 1	1 1	П		1	1	f	i	l	1	1
İ	19.485	2	۱, ۱	785.15 785.05	- 1	l l		26.064	1	Zc	774.31	ł	į .	1	!
i	19.537	-	ادا	784.97	1	Ω3221	1	26.139	2	١.	774.18		1	1	1
1	19.619	٠	3	784.83	į	R <sub>32</sub> 13		26.312		2	773.90	į	l	1	1
1	19.677		2	784.74	1	1 1	1	26.406 26.501	1 4	0	773.75		ļ	ł	1
	10.00	1	1 1		. 1	1 1	1	20.30.	•	1	773.59	•	i	1	1
Į	19.869	3Ъ	ا ر را	784.43	•		1	26.847		1	773.03	]	l	1	1
	20.129		1d 3	784.27	ļ	1 1		26.982	1	3	772.81	1	l	1	1
1	20.238		ĭ	784.90 783.82	1	1 1	1	27.035		2	772.72		l	1	1
1	20.340		8	783.66	i	Q, 21	1	27.107	•	1	772.60		ŀ	1	Į
1					1	10, 01	1	27.201	1	3	772.45		[R <sub>32</sub> 11	Q3219	ı
ı	20,389	04	5c	783,58	1	R, 13	ı	27,266	ľ	3с	777 34		1	1	ı
1	20.436	l	Zc	783.50	i	1	I	27.414	l	24	772.34 772.10			1	ı
1	20.538 20.691		ld	783.25	. 1	1 1	1	27.545		4	771.69	R, 15			1
1	23.742	4d	24	783.08	2	1 1	1	27,673		1	771.68			ĺ	1
1		~ I	- !	783.00	;	!!	1	27.792	2	1	771.48	#			i
1	20.840	i	4	782.84	Q <sub>2</sub> 22	1	1	37 071		ا ۱		1			
1	21.004	ı	i	782.57	142 66	1 1	Ĭ	27.871 28.013		3	771.36	i	R <sub>2</sub> 13		Ì
1		1d	- 1	782.15	ı	1 1	1	28.039	ld	7	771.13	!		S126	ĺ
1	21.356		1	781.99	1	1 1	1	28.294	3	'	771.08	!	Q <sub>3</sub> 19	R, 11	į
ĺ	21.481	t	3	781.79	1	1 1		23,431		14	770.44	7			ĺ
•	21.680	- 1	15.1	701 47	. 1	] ]						I			
[	22.136	ļ	1 bd	781.47   780.72   F	16	1 1		28.598		2	770.17	į	i		
		14	i l	780.52	1 16			28,744		1	757. 93	- 1	į.		
Ì	22.465	id	i	780.18	· 1			28.863	٠, ١	1	769.74	_		i	
	22.710	2	1	779.78	*	1		28.984	1	5	753.54	Q1 22			
				L			L	27.070	- 1	•	769.35	1	1	ı	

λ	· I	12	•	Classifica 7-6	tion	λ	1	I <sub>2</sub>	٠	Clas	sifica 7-6	tion
7829.191 29.277 29.361 29.400 29.445	1	1 4 1 5	12 769.20 769.06 769.93 768.86 768.79	Q <sub>2</sub> 20		7836.187 35.391 36.597 36.647 36.802	1d 2	1 3 1 2	12 757.80 757.47 757.14 757.06 756.80		Rg 11	S <sub>M</sub> 4
29.626 29.700 29.784 29.921 30.045	3	1 1 2 2d 1	768,49 768,37 768,24 768,02 767,81	•	T313	36.938 37.107 37.253 37.314 37.419	0 3 2 0	1 3 4 1	756.58 756.31 756.07 755.97 755.80		Q <sub>2</sub> 13	•
30.151 30.250 30.546 30.681 30.794		2 2bd 1 2 1	767.64 767.48 766.99 766.77 766.59		C <sub>32</sub> 18	37.511 37.693 37.685 37.781 37.839	1	1 1 2 4	755.65 755.50 755.36 755.21 755.11			R, 8
30.971 31.146 31.444 31.544 31.639	2	1 1 1 5	766.30 766.02 765.53 765.37 765.21	[R <sub>2</sub> 10	C <sub>3</sub> 18	37.888 38.002 38.127 38.220 38.478	1	6 1 1 5 1d	755.04 754.85 754.65 754.49 754.08	R <sub>2</sub> 13	Ω <sub>23</sub> ΐδ	Q <sub>3</sub> 16
31.699 31.752 31.878 31.983 32.094	1 2 3 1	3 1 2 1	765.11 765.03 764.82 764.65 764.47	*	S <sub>12</sub> 5	38.604 58.659 38.805 38.852 38.892	1	2 1c 2 3	753.87 753.78 753.54 753.47 753.40	# P <sub>1</sub> 30		
32.237 32.350 32.694 32.787 32.872	3	2 1 1 3 1	764.24 764.05 763.49 763.34 762.20	R <sub>2</sub> 12	S <sub>31</sub> 5	38.945 39.037 39.162 39.279 39.351	1 4 2 3	1 3 1 2	753.32 753.16 752.96 752.77 752.65	•		S <sub>32</sub> 3
32.919 32.952 33.031 33.238 33.371	1	3 1 1bd 3	763.13 763.07 762.94 762.61 762.39	•		39.460 39.623 39.700 39.784 39.821	3 0 2	3 2 1 1	752.47 752.21 752.09 751.95 751.89	•		R <sub>32</sub> 7 S <sub>32</sub> 3
33.431 33.551 33.685 33.744 33.788	3 0 1	6 3 7 1	762.29 762.10 761.88 761.78 761.71	Ω <sub>1</sub> 21		39.820 39.970 40.088 40.211 40.287	3	3 1 1 2	751.79 751.65 751.46 751.26 751.13		R <sub>2</sub> 10	Ω115
33,872 33,998 34,155 34,275 34,618	1 1d 1	2 1 2 4 1	761.58 761.37 761.12 760.92 760.36	C <sub>31</sub> 19	R <sub>32</sub> 9 Q <sub>33</sub> 17	40.351 40.521 40.621 40.735 40.840	3 0 2	4L 1 1 6 5	751.05 750.73 750.59 750.41 750.23		Ω <sub>2</sub> 17	R, 7 O, 15
34.752 34.839 34.986 35.204 35.354	3 1 4	4 6 2 1	760.14 760.00 759.76 759.40 759.16	T <sub>31</sub> Z	R, 9 Q, 17	40.957 41.069 41.129 41.281 41.385	· 1d 1	4 2 0 2	750.04 749.86 749.76 749.52 749.35	•		P, 27
35.523 35.555 35.660 35.624 36.040	1 3	1 3 1 1d	758.88 758.83 758.66 758.39 758.04		S <sub>33</sub> 4	41.540 41.698 41.816 41.963 41.997	3	2 1 4 3	749.10 748.84 748.65 748.41 748.35		O <sub>23</sub> 17	R <sub>M</sub> 6

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7842.086	3	1	12 748.20		i	S32 2	П	7848.473	i	2	12 737.83	1	1	1
42.332 42.476	[	1 2	747.81	1	Ī		Н	48.564	2	١.	737.68		1	1
42.539	2	1 4	747.57 747.47	Į.	1	Q <sub>52</sub> 14	Н	48.586	ł	1	737.65		}	ł
42.576	١ -	8	747.41	Q <sub>1</sub> . 19	J	R316	П	48.667 48.738	1	1	737.52	I	1	f
		١	147.31	155, 13	Ί	ı	П	30.130	İ	2bd	737.40	ſ	I	Q <sub>33</sub> 11
42.704	2	1	747.20	1	[531 2	R, 6	П	48.994		2	736.99	İ	1	1
42.816	l	3	747.02	R <sub>1</sub> 12	1	,	П	49.115	i	4	735.79	1	1	1
42.899	3	}	746.89	1	ì	ì	Н	49.218	X	1	736.62	ì	1	R, 2
43.051	1	١١	745.64	l	1		П	49.276	1	2	736.53	i	P2 21	8
43.155	٠.	14	746.47	}	ł	i	H	49.368	1		736.38	ł	S21 4	I
43.261	14		746.30	}	i	1	П	49.599	2	5	736.00	!	i	l
43,318		7	746.20	P1 29	i	Q, 14	П	49.741	3	0	735.77	ł	i	Q <sub>3</sub> 11
43.409	14		746.06	• • • •	l	-,	Н	50.031	1	l i	735.30	Q <sub>12</sub> 17	,	1
43.571	2	0	745.79	į.	1	T310	П	50.167	1	2	735.08	-11-	1	1
43.717		1.	745,56	ŀ	ł	1	Н	50.297	3	2	734.87	8	I	Ω 10
43.866	4	3	745 21		l	l	H	50 400	i	١. ا		i	1	1
43.995	•	1	745.31 745.10		I	R325	П	50.403 50.540	l	3	. 734.70	I	Q <sub>2</sub> 14	l
44.096	1	ż	744.94	l	R2 9	1	Н	50.718	2	2	734.48	Į	1	i
44.137		4c	744.87		- · · ·		П	50.763	٦ ا	80	734.20 734.12	١, ,,		1
44,234	0	4	744.72		Q 16	ŀ	П	50.868	1	i	733.95	Ω, 17	1	1
					•	1	Н		Ĭ	1	,,,,,,		i	1
44.331		1	744.56		1	l	П	50.982	1	2	753.76	İ	R <sub>2</sub> 7	
44.438	1	3	744.38		1	P, 26	Н	51.168	. 1	3	733,46		1	O <sub>3</sub> 10
44,791	9	6	744.07 743.81	te e	l	Ryis	! ;	51.380	2	1. 1	733.12		1	1 1
14.964	,	ĭ	743.53	[S <sub>21</sub> 5	16217	R,5,Q,	11	51.595 51.690	1 4	5	732.77	P <sub>2</sub> 27		Q <sub>32</sub> 9
,	. !	!			!		Н	31.070	•	1, 1	732.61	ĺ	R <sub>21</sub> 7	
45,107	•	1	743,30		Q2516		11	51,797	2		732.44		ŀ	1
45,213	2	.	743.13			1	11	51.852	l	2	732.35	1 -	1	
45.344	1	0	742.91		1	S <sub>31</sub> 1	П	52.091		1	731.96	l	l	
45, 494 45, 609	1 2	2	742.67			l i	Н	52.230	1	3	731.74	R, 10	l	
75,009	-		742.48			P. 324	П	52,352	1	1 1	731.54	_	l	
45.665	2	8	742.39			Q <sub>3</sub> 13	П	52.467	4	5	731.35		l	ا م ا
45.816	1	2	742.14			,	ı	52.580	•	li l	731.17		l	D 9
46.039	0	1	741.78			1	П	52.632	1		731.09		l	0,,8
46.387	2	2	741.22	*			П	52.700		4	730.98		P2 27	]~,(` ]
46.485	l	- [	741.06				ł	52.933		1	730.60		-	1 (
46.556	2	1c	740.94	i		R, 4		52.966	0		730.54			l I
46.652		1	740.79	i		"	H	53.049	١	1 1	730.54		1	C <sub>32</sub> 3
46.759	. 1	5	740.61	Q <sub>1</sub> 18		i i	1	53.175	0	5	730,21	1	Q. 13	j
	00	1	740.38	-		O3272	ı	53.322	1	2	729.97		٠. سا	Q <sub>32</sub> 7
47.004	4	1	740.22	1		R323	ł	53.485	2	2	729.70		l	0,8
47.064	]	3	740,12					53.549		5	720 (-		l	
47.185	- 1	2	739.92	į.			П	53.601	0		729.60	1	l	ا ۱
47.302	Į	ī	739.73			1 1	1	53.748	4	2	729.51 729.27		9. 1	0,124
47.422	1	5	739.54		Q <sub>2</sub> 15		1	53.835	i	-	729.14		S <sub>21</sub> 3	Q <sub>32</sub> 6 Q <sub>32</sub> 5
47.551	- 1	2	739.33	P, 28		i I	İ	53.862		2	729.09	Q <sub>12</sub> 16	İ	~33.°
47.594	ı İ	4c	739.26	ъ. ", l	ם פ		1	E3 A		١, ١				
47.688	.	4	739.11	R <sub>1</sub> 11	1/3 0		l	53.911 54.040	2	1c 2	729.01			
47.767	0	3	738.98			Q, 12	1	54.132	•	1	728,60 728,65		R <sub>2</sub> 6	C 3
47.887	1	1	738.76				1	54.215	5	4	728.52			ابما
48,031	3	1	738,55			R, 3	ı	54.402	2	·	728.22	•		C <sub>3</sub> 7
48.096	,	- 1	720			*	ł				i	-		1
48, 151	•	2	738.44 758.36	1		R322		54.551 54.609	2	5	727.98	ا		Q <sub>3</sub> 4
48.264		î l	738.17	1			ı	54.638	4		727.88	Ω <sub>1</sub> 16		, 1
48.342	2	2	738.05	İ	R218	Q <sub>23</sub> 15]	1	54.751	4	3	727.65	•	R216	236
48, 443	1	- 1	737.88				1	54.819	ž	2	727.54		./11.0	Ω, 5
		i				L <u>l</u>	1			-	141.31	1		

Γ		_				ifical	ion	T				Cla	selficati	on
1	λ	I	I <sub>2</sub>	v	7	7-6	Ì	١	λ	1	۳		7-6	
7	855.044 55.279 55.354 55.450	2 1 0	1 2 3	12 727.18 726.80 726.67 726.52	P <sub>1</sub> 26				7869.404 69.558 69.644 70.699	2 2 3 1	12 703.95 703.70 703.24 702.83 702.56	R <sub>2</sub> 6	Q <sub>11</sub> 4 Q <sub>12</sub> 4	
	55.500 55.703 55.747 66.720 56.929 5'.060	2 1 1	1 3c*	726.28 728.11 726.04 724.46 724.12 723.91	R <sub>1</sub> 9	C <sub>2</sub> 12			70.266 70.640 70.829 71.088 71.319 71.378	2 0d 1d 2	701.96 701.65 701.23 700.86 700.73	Q <sub>12</sub> 11	Q <sub>21</sub> 3 Q <sub>32</sub> 3 Q <sub>31</sub> 2 Q <sub>31</sub> 1 Q <sub>32</sub> 2	
	47.274 57.626 57.750 57.944 58.103	1 1 5 2 2		723.56 723.00 722.79 722.48 723.22	I	R <sub>31</sub> 5 S <sub>21</sub> 2 O <sub>2</sub> 11			72.116 72.625 73.389 73.564 74.297	4 1 4 0 2	699.58 698.76 697.52 697.24 696.06	R <sub>1</sub> 5 Q <sub>12</sub> 10 Q <sub>1</sub> 10	Oni	
	58.271 58.495. 59.805 59.149 59.398	1 2 1 1d 3		721.95 721.59 721.09 720.53 720.13	Ω <sub>1</sub> 15	-		-	74.607 74.823 75.001 75.197 75.420	2d 2 3 0	695.56 695.21 694.92 694.61 694.25		P <sub>23</sub> 2 P <sub>3</sub> 3	
	59.550 59.762 59.941 60.2 1 60.4.	2 1 2 1 3		719.88 719.50 719.28 718.73 718.39	* (	Re 4 Qa 10 Res4			76.176 76.329 77.056 77.246 77.549	6 2 5 5	693.03 692.78 691.61 691.31 690.82	Q129 Q1 9 R1 4	P <sub>23</sub> 3 P <sub>23</sub> 4 P <sub>2</sub> 13	P2 5]
-	60.541 61.080 61.918 62.062 62.208	2 1bd 3 1		718.28 717.40 716.05 715.82 715.58	1 1	5 <sub>21</sub> 1 Q <sub>2</sub> 9	P, 4		78.149 78.393 78.535 78.696 78.883	6 0 0 1 4	689.85 689.45 689.23 688.97 688.67		P <sub>13</sub> 5 P <sub>13</sub> 13 P <sub>2</sub> 7 P <sub>2</sub> 11 -P <sub>26</sub> 6	
	62.331 62.754 62.638 63.000 63.092	) 1 1 5		715.38 714.70 714.53 714.30 714.15	ļ,	R <sub>2</sub> 3 R <sub>31</sub> 3 C <sub>21</sub> 9	P <sub>3</sub> 5		78.964 79.031 79.110 79.425 79.578	1 1 5 2	688.54 688.43 688.30 687.80 687.55	Q <sub>12</sub> 8	P <sub>2</sub> 10 P <sub>2</sub> 9 P <sub>3</sub> 12 P <sub>3</sub> 7 P <sub>3</sub> 11	
	63.261 63.507 63.952 64.544 64.831	1 1 2 1d 0		713.83 713.48 712.76 /11.80 711.34		C <sub>2</sub> 8	P3 6		79.687 79.767 79.843 79.913 81.629	3 3 2 3 4	687.37 687.24 687.12 687.01 685.21	Q <sub>1</sub> 8	P <sub>33</sub> 8 P <sub>33</sub> 10 P <sub>33</sub> 9	O <sub>23</sub> 3]
	65,150 65,308 65,481 65,631 66,182	2 5 2 0 2		710.82 710.57 710.29 710.05 709.16	1 1	R <sub>11</sub> 2 Q <sub>1</sub> 7 S <sub>21</sub> 0 Q <sub>21</sub> 7	P3 7		81.471 81.748 82.189 82.714 83.854	7	684.50 684.06 683.19 687.50 680.67	C <sub>12</sub> 7 Q <sub>1</sub> 7 Q <sub>12</sub> 6	Ω <sub>23</sub> 4	
	66,377 66,814 67,428 67,725 68,053	2 1 4 2 3		708, 84 708, 13 707, 14 706, 66 706, 13	[025	C237 C3 6 X1,1 C236			84,103 84,571 84,696 85,454 35,643	4 2 3	680.27 679.51 679.31 678.10 677.79	Q <sub>1</sub> 6 R <sub>1</sub> 2	0235	
	68.309 68.640 68.877 69.120 69.282	2 2 4 1		705.72 705.19 704.80 704.41 704.15	[Q <sub>1</sub> 4	( <u>Ն</u> լ5 Ըչյ5	P <sub>3</sub> 9 P <sub>3</sub> 10 P <sub>3</sub> 11		86.143 86.754 86.840 88.067 88.109	8 2	676.99 676.01 675.97 673.99 673.83	Q <sub>12</sub> 5 Q <sub>1</sub> 5 P <sub>12</sub> 13	Ω <sub>25</sub> 6	

<sup>\*</sup>End of the high temperature measurements

<b>X</b>	1	v	CI	assifica 7-6	tion	$\prod$	λ	1		7-6	lassific	ation -5	
7888,245	3	12 673.61	-	т—	1	╫╴		┼─	<del> </del>		<del> </del>	<del>-,</del>	4
88.321	l i	673.49	R <sub>1</sub> 1	1	1	Ш	7917.906	1	12 626.13		Į.	1	1
86.858	i	672.62	Cuz4	ſ	1	11	48.202	9	578.01			ł	-
38.998	6		P, 13	İ	ı	П	61.773	1	556.57	ľ	I	ŧ	Í
		672.45	Ω, 4	1	Į.	11	66.439	0.4	549.21	1	1	T315	- 1
89.503	0	671.59	P. 15	1	į .	11	71.564	2	541.15		1	S <sub>32</sub> 7	1
89.735	154	671.22	İ	Į	!	Ш	00-	١.			1 .	~	I
90.235	1	670.41	P, 12	1	1	11	72.097	1	540.31	,	1	}	1
90.382	6	670.18	Q <sub>12</sub> 3	0237	1	!!	72.305	24	539.98		1	[ S <sub>31</sub> 7	1
90.708	2	669.65	911	ν <u>α</u> .	1	П	74.336	1 1	536.79		1	1	1
91.055	8	669.10	P <sub>12</sub> 11	1	[	11	75.299 75.465	Od 2	535.27	-	i	R <sub>32</sub> 11	١
			1	ł	l	П	13, 103	-	535.01		1	1	1
91.446	2	668.47	1 P, 11	1	1	П	76.036	1	534.11		•	S32 6	1
91.649	0	668.14	I K, C	j	1	11	76.197	1	533.86		i		1
91.792	1	667.91	P1210	i	ł	ii	76.761	1	532.97		i	R <sub>3</sub> 11	ı
92.380	2	666.97	Q12C	ł	1	H	77.341	2	532.06		•	S <sub>23</sub> 6	ı
92.536	3	666.72	P <sub>1</sub> 10	C <sub>23</sub> 8	l		77.852	264	531.26		•	T313	1
92.736	4	666.40	P129	ĺ	i .	[]		f	1		•	-31-	1
92.872	i	666.18	2 127	}	1	Н	78.550	ld	530.32			1	1
93.009	4	665.96	100	ļ		П	79.789	14	528.22		•	R, 10	1
93.463	3 1	665.23	Ω, 2	ł	1	Ш	79.904	2	528.04		•	1	1
93.556	ź	665.08	P, 9	•		П	86.101	1 1	527.73			ł	i
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 1	005.08	P128			П	20.212	4	527.55		l	S <sub>12</sub> 5	l
94.23:	7	663.96	P <sub>12</sub> 7	P <sub>1</sub> 8]	ລຸມ1]	П	60.929	1	526.43				Ì
94.519	2	663.54	-	O239	11-1	H	81.147	l ō l	526.09		n	S <sub>21</sub> 5	1
94.841	8	663.02	P126	$Q_1$			81.378	154	525.69		R <sub>21</sub> 12	1	I
94.967	5	662.82	P <sub>1</sub> 7				81.961	164	524.81 1			I	ı
95.181	0	662.47	P <sub>13</sub> 7				82.139	3	524.53			1	ı
95.310	8	662.27	D =			1			. 1		l	1	l
95.543	3	661.89	P125			1	82.253	2	524.35		ŀ	R229	ı
95.698	4		P <sub>1</sub> 6			1	82.521	1	523.93			1 -	i
96.000	9	661.65	Pu4	1		1	82.641	2	523.74			ł	ł
96.269	4	661.16 660.83	P <sub>12</sub> 3	P <sub>1</sub> 5]	1	ł	83.050	1	523.10			TuZ	ı
//	, [	000,00	P <sub>23</sub> 2				83.161	4	522.93	3	S <sub>21</sub> 7	R3 9	l
96.360	5	660.58	P, 4	P121]	- 1	1	83.242	1	522.80		•	i	1
96.529	2	660.31	C <sub>1</sub> 0		1		83.312	3	522.69	- 1		į	1
96.658	6	660.11	P <sub>1</sub> 3	1	J	i	83.716	2	522.06			1	l
76.640	3	659.82	P <sub>1</sub> 2	1	·	1	84.071	2	521.50			l	I
95.918	4	659.69	P; 0	P, 1]	I	1	84.177	ī	521.33	1		S <sub>32</sub> 4	l
07.855	.	658.19		<u></u>	- 1								l
98.996	3	656.36		O <sub>23</sub> 11	- 1	1	84.577	1 bd	520.71			1	1
99.506	3	655.54	۱ ا	l	- 1	I	84.756	lbd	520.43			S <sub>31</sub> 4	l
901.093	3		0121	ا ر, ہ	- 1	1	85.223	4	519.69				1
02.503	6	653.00 650.58	Cit	On1]	- I	1	85.318	1	519.54	ı		R228	Į
	~	050.56	O <sub>12</sub> 3	- 1	I	1	85.496	1	519.27	•	R <sub>21</sub> 11	~	Ī
03.641	1	648.92	0,3	- [	İ	1	85.637	3	519.04	i			ĺ
64.037	3	648.29	0:4	1	]	1	85.854	i l	518.70	1			
05.:74	6	646.15	0135	1	į	1	85.229	2d	518.12	1			ı
05.7.5	1	645.60		i	i	į	85.463	5	517.75	•		R, 8	
06.314	2	644.65	0,,5	ł	- 1	1	80.584	i	517.09	1	,		
05.502	.	44.34	İ	ł	•	1	1	1	ľ	ļ			
06.623	3	644.15	0,5	- 1	ł	1	87.299	1	516.44	į	į		
07.773	5	642.31	0:27	1	1	1	87.614	5	515.95	ş		S <sub>32</sub> 3	
08.678	i l	640.87	0137	I	1	l	87.785	1	513.68	Ì			
08.819	ž	640.64	018	- 1	ł	Ì	87.937 88.095	1	515.44 515.19	•		T3:1	
i i	- 1	į	i		- 1	1	30.073	1	212.14	1		R <sub>22</sub> 7	
	ا ذ	639.17	01.9	ļ	]	]	88,174	1	515.07	- 1	j		
	,	637.89	0.10	- 1	- 1	ſ	88,303	2	514.67	1		5,, 3	
44.454.1	2	636,80	0,,11	- 1	]	l	88.275	1	514.75	i	S21 6	-71 -	
11.932	2	635.67	N <sub>13</sub> 5	1	1	l	89.019	0d   4d	513.99	1	R 10	R117	

\*N I bne 7878.985 \$N I line 7915.419

λ	1	v	Cla	seificai 6-5	nei	λ	i	ν	Cla	esificati 6-5	on
7989.697	ld	12 513.62				8002.453	2	12 492.74		Q <sub>2</sub> 13	
89.329	14	513.26			11	02.573	1	492.55			
89.463	4	513.05			- { }	02.679	2	492,38			Q <sub>32</sub> 7
89.609	2	512.82	į	R=10	[	02,835	6	492.14		S21 3	$\Omega_{3}$
90.558	3	511.33	1		R326	02.933	1	491.99			Q <sub>32</sub> 4
90,689	2	511.13			. }	03.022	2	491.85			
90,811	3	410.94	1		5,22	03.101	l i	491.73			l Qué
91.024	{ 1	519.61				03.191	[ 2	491.59	1		Q325
91.315	1 1	510.15 510.01			R316	03.264	1	491,47		R2 6	
91.406	1	310.01		1		03.383	2	491.29			Ω, 3
91.491	3	309.37	1	[S <sub>31</sub> 2	R, 6	03.606	6	490.94			Ω, 7
91.806	2	509.38				03.928	1	490.43			0, 4
91.912	1 3	509.21			1	03.981	3	490.35	_	Rat	١, ،
92.376 92.710	6	508.49 507.96			R115	04.046	3 6	490.25			Ω, 6 Ω, 5
/=	-	2011,7		l i	.,112	1	"	4,0.0,			1 -3 -
92.791	1	507.84		R2 9		04.272	2	489.90			l
93.299	1	507.04				04.340	1 3	489.79			{
93.406 93.505	2	506.88 506.67	1	S <sub>11</sub> 5 R <sub>21</sub> 9	R315	04.417	1 2	469.67		!	1
93.657	8	506.47		K117   S <sub>32</sub> I	R <sub>3</sub> 5	04.66	1 2	489.28	i '	1	ļ
-	} .					1	1		l		1
93.914	1 1	506.08	(	į	١ . ١	05.097	4	485.61		<sup>1</sup> Ω <sub>3</sub> 12	ì
94.243 94.326	6	505.57 505.44	<b>§</b>	}	Sall	05.819	2	497.48	Д, 9	,	•
94.439	li	505.26	1	1	1	06.168	4	486.94	1	<b>,</b>	1
94.530	3	505.12			R924	06.249	i	436,81	1	l	1
94.741	١,	504.79	1	1	1 , , , , 1	06.333	4	486.68			1
95.247	lo	504.00	1	l	23 13 R314	06.560	11	486.33	1	R <sub>2</sub> 5	1
95.452	2	503.68	1	t	""	07.043	6	485.58	ì	R215	Į.
95.535	2	503.55	1	i	R, 4	07.123	3	485:45	{	1 .	1
95.999	5	502.02	l	{	R323	07.218	3	485.30	l	821.2	1
96.306	3	302.34	R, 1:	}	1	07,451	1	484.94	1	}	1
96.481	2	302.07	1	R <sub>2</sub> B	1. 1	07.569	3	484.75	į	2, 11	1
96.609	1	301.87	1	į.	1 _ 1	07.678	1	484.59	{	1	1
96.720 96.907	0	301.69	}	ł	R313	07.811		484,38 483,53	l	١	1
70.701	1.	301.40		{	Q3 12	08.354	1 "	703.33	1	Quili	1
97.C11	Z	301.24	1	1		08.549		483,23	į	1	1
97,068	3	301.15	1	1	R, 3	08.756		482.91	1		1
97.121 97.231	2	301.07	}	n. o	R332	09.179	1 1	482.25	ł	R <sub>2</sub> 4	1
98.217	1 2	499.35	}	R <sub>11</sub> 8	} }	09.803		481,27	1	Q <sub>2</sub> 10	1
		į			1 1	1	1	1	1	1 -4.	1
98,337	1	499.17	1	1	R, 2	10.365		480.40	R, 8	1	1
98.819 99.169	3	498.41	1	i	C, 11	10.711		479.86	}	Q257.0	1
99.505	١ -		1	1	1 1	10.810		479.70	1	j	1
99.688	14		}	1	1. !	11.387		478.81	}	82, 1	ł
00 013	1	406 75	1	1	1		1.	1	j	1	I
99.913 99.978		496.70 496.60	1	R <sub>2</sub> 7	1 1	11.822		478.13	1	Ω, 9	R <sub>8</sub> 3
8000.148			j	1.3		12.315	lî	477.36	1	1	1
09.447	3	495.87	1	l	Ω, 10	12.442	1	477.16	1	1	l
00.716	5	495.45	}	R317		12,541		477.01	1	R <sub>H</sub> 3	1
00.898	ن	495.16	1		2349	.2.583	3	476.94	i	0.0	p. 2
01.139		494.79	R, 10	1	~347	12,741		476.70	1	Q119 Q119	P <sub>5</sub> 5
01.800		493.76	1	1	Q, 9	12,841		476.54	1	1 -"	1
01.950		493.52	}	1	Q338	12.912	2	470.43	İ	l	1
02,311	10	492.96	1	1	Q <sub>32</sub> 3	13,609	1 3	475.35	1	Q 8	

λ	1	·v .	Classification 5-5			λ	I	v	Cla	seificat 6-5	ion
8013.672 14.280 14.381 14.548 14.793	2 2 0 3 10	12 475.25 474.30 474.14 473.88 473.50	R <sub>1</sub> 7	Q <sub>21</sub> g Q <sub>22</sub> 8	P <sub>3</sub> 6	8024.679 25.148 25.279 25.437 25.666	4 5 0 2 1	12 458.14 437.41 457.21 455.96 456.60		P <sub>29</sub> 2 P <sub>2</sub> 3	
14.970 15.216 15.296 15.541 15.748	4 4 1 2 1d	473.23 472.84 472.72 472.34 472.02		R <sub>21</sub> 2 Q <sub>2</sub> 7 S <sub>21</sub> 0		25.870 26.004 26.267 26.391 26.729	2 1	456.29 456.08 455.67 455.48 454.95	Q <sub>12</sub> 9	P23	
15.895 15.970 16.079 16.164 16.469	2 4 1 5	471.79 471.67 471.50 471.37 470.89		Q <sub>21</sub> 7 Q <sub>25</sub> 7	P <sub>3</sub> 7	27.181 27.263 27.383 27.524 28.061	8 4 1 6 1	454.25 454.09 453.94 453.72 452.89	Q <sub>1</sub> 9 R <sub>1</sub> 4	P <sub>23</sub> 4	P2 5]
16.5°C 16.726 16.836 17.052 17.196	3 1 4 1	470.70 470.50 470.32 469.99 469.76		Q; 6		23.332 29.496 26.681 28.755 28.870	1 8 2 1	452.47 452.21 451.93 451.81 451.63		P <sub>2</sub> 6 P <sub>21</sub> 5	
17.333 17.419 17.478 17.350 17.691	2 1 1 3 1	469.55 469.42 469.33 469.21 468.99		Ω <sub>23</sub> 6	P3 8	28.954 29.160 29.218 29.284 29.503	3 1 1 5	451.50 451.18 451.09 450.99 450.64	Д <sub>13</sub> 8	P <sub>2</sub> 7 P <sub>2</sub> 11 P <sub>25</sub> 6 P <sub>2</sub> 9	P <sub>2</sub> 8] P <sub>2</sub> 10]
17.768 17.971 18.132 18.431 18.674	3 0d 1 4d 2	468.87 468.56 468.31 467.76 467.47	Q <sub>1</sub> 12	Q <sub>2</sub> 5	P <sub>3</sub> 9	29.612 29.872 29.915 30.020 30.143	0 8 7 4 3	450.48 450.08 450.01 449.85 449.66	Ω, 8	P <sub>n</sub> iz P <sub>n</sub> 7	
13.737 18.823 18.948 19.061 19.143	5 1 1 3 2	467.37 467.23 467.04 466.86 466.74	R <sub>1</sub> 6	Q <sub>23</sub> 5	Q <sub>2</sub> 4]	30.248 30.434 30.603 31.230 31.768	5 6 I 6 4	449.50 449.21 448.95 447.97 447.14	R <sub>1</sub> 3 Q <sub>12</sub> 7	O <sub>23</sub> P <sub>29</sub> 9	P <sub>23</sub> 8] P <sub>23</sub> 10]
19.269 19.411 19.506 19.686 19.747	1 3 2 4	466.54 466.32 466.17 465.89 465.80		Ω <sub>2</sub> 3 Ω <sub>23</sub> 4	P, 13 P <sub>3</sub> 11	31.961 32.17.1 32.293 32.517 32.728	1 1 10 1	446.34 446.59 446.33 445.78 445.65	Ω, 7		
19.862 20.019 20.177 20.298 70.412	2 1 4 2 1	465.62 465.37 465.13 464.94 464.76		O213	-	33.186 33.287 33.566 33.672 33.025	1 3 3 1	444.94 444.79 444.35 444.19 443.64		0294	
20.569 21.289 21.958 22.102 22.824	6 7 1 6 5	464.52 463.40 462.35 462.14 461.02	Q <sub>12</sub> 11 Q <sub>1</sub> 11	Ω <sub>23</sub> 3 Ω <sub>23</sub> 2 Ω <sub>23</sub> 1	عد م	34.693 34.248 34.348 34.601 34.995	3 2 1 3 8	443,54 443,30 443,14 442,75 442,14	Q <sub>12</sub> 6		
23.231 23.546 23.962 24.070 24.311	7 1 3 1 4	460.38 459.90 459.25 459.08 458.71	R <sub>1</sub> 5 Q <sub>12</sub> 10 Q <sub>1</sub> 10			35.670 35.264 35.491 36.177 36.227	3 1 1 5 1	442.03 441.72 441.37 440.31 440.14	R <sub>1</sub> Z	O <sub>23</sub> 5	

λ	I	v ·	Classification 6-5			λ	1	v	C1	Classification 6-5	
8036.375	2	12 440.01	T			8045.803		12 425.43	1.	Tar	7
36.481	i	439.84	P, !5	} }	- 11	45.894	1	425.29	P136	0239	{
36.630	5	439.61	Qu5	1 1	- 1	45.967	1 ;	425.17	107	į	Į
36.915	3	439.17	1	1 1	13	46.049	li	425.05	P <sub>1</sub> 7	1	
36.973	2	439.08	í	1 1	- 11	46.134	i i	424.92	Pu7	1	i
37.073		/20.03	1	1	1				1	1	}
37.073 37.360	1đ 10	438,9Z 438,48	٠.	1	- 1	46.214	1	424.79	ł	l	i
37.429	1	438.37	Q, 5	1 1	- 11	46.283	9	424.59	P115	{	I
38.032	i	437,44	.Pu.14	1 1	- 11	46,471 46,545	1 5	424.40	1	ł	1
38,186	1	437.20	P <sub>1</sub> 14	1	- }	46.666	7	424.28 424.10	P <sub>1</sub> 6	1	1
			1	1 (	. 11				- 11	ĺ	1
38.311	1	437.01	1	] ]	- 11	46,823		423.85	)	}	}
38.460	3	436.78	1	!!	- 11	46.961	9	423.64	P133	1 .	İ
38.645 38.794	5	436.49	١,,	1 1	- 11	47.018	8	423.55	P. 5	1	Í
36.886	5	436.26 436.12	R, 1	اندا	- 44	47.100	1	423,43	l	i	ł
30.000	,	450,12	Ω <sub>1,2</sub> 4	0236	- 11	47.181	5	423.30	P132	1	j
38.787	4	435,96	P <sub>12</sub> 13	1	- 1	47.247	1	423.20	P115	}	}
39.097	1	435.79		1 1	- 11	47.318	6	423.09	Pil	1	l
30.265	3	435.53		1	- 11	47.387	5	422.98	P1 4	1	1
39.606	7	435.01	Ω, 4	1 1	- 11	47.490	4	422.83	Ω, 0	l .	] .
39.711	3	434.80	P, 13	1 1	- 11	47.587	3	422.57	1	1	l
40.025	2	434.36	1	1 1	- 11	47.660	7	422.56	١,,	1 ~	1
40.109	5	434,23	i i	1	- 11	47.730	i	422.45	P <sub>1</sub> 3	0.10	ì
40.390	1	433.79	Piz12	1 1	- 11	47,787	3	422.36	1	1	1
41.060	5	432.76	Q <sub>12</sub> 3	1 1	- 11	47.840	5	422.28	P, Z	P, 0]	1
41.159	2	432.60	P <sub>1</sub> 12	[ {	- 11	47.910	5	422.17	Pil	1 - 1 - 1	ſ
41.291	1	432,40		.1	- 11	40.030			1	1	Ì
41.392	6	432.24		0217	- 11	48.039	1 2	421.98	P <sub>13</sub> 3	∤.	Į .
41.524	i	432.04		ъ.	- 11	48.448	0	421.75 421.34	١,,	l	1
41.638	5	431,86	P <sub>11</sub> 11	1 1	- 11	48.900	3	420.64	Pu2	i	}
41.753	10	431.68	$\Omega_1^{-3}$	1	- 11	49.235	1	420.13	P <sub>13</sub> 1	1	1
41.930	.	431,41			11	40.346	_		}	i	
42.063	4	431.21		1	- 11	49.356	5	419.94	١	O2,11	
42.162	i	431.05	1		- 11	50.622 50.821	2	417.99	0121		
42.292	il	430,85		1	- 11	52.045	î	417.68	1	O <sub>2</sub> !2	,
42.395	5	430.69	P <sub>1</sub> 11	R, 0]	- 11	52.299.	5	415.79 415.40	Ouz	On 13	
47 500	, 1	1	-		11				-u-	011]	<b>,</b>
42.509	4	430.52 430.32	j	]	[]	53.362	લ્ય	413.77	1		
42.731	3	430.32	ا ۱۸ ح		- 11	53.548	14	413.49	Ouz	1	
43.011	i l	429.74	P1210	1	- 11	53.686	2d	413.27			
43.145	3	429.53	QuZ	1	[ ]	53.901 54.054	8	412.93 412.68	O <sub>L1</sub> 3		
		i	-	1	- 11	22.004	- 1	712.00	i		
43.348	1	429.22	!	I	11	34.235	1	412.34	1		
43.501 43.585	1	428.98	P, 10	O <sub>23</sub> 8	- 11	54.667	1	411.72	•	1	
43.696	7	429.85   428.68	ъ. п	1	[]	24.996	2	411.25	0,,3		
43.794	5	428.53	Pu9 Q <sub>1</sub> Z	. 1	- 11	55.426	3	410.59	0,14		
i i		1		1	11	55,531	1	410.42	l i		
43.891	1	428.38	1	1	11	56.423 1	1	409.05	Out		
44,448	6	427.52	P1 9	į		56.592	1	408.79	<b>.</b>		
45.009	il	427.42 426.55	P <sub>12</sub> 8	- 1	] [	56.738		408.56			
45,128	3	426.47	Ω121	- [	- 11	56.851 57.089	3	408.39	O125		
	. !	ŧ	•	- 1	- 11	31.007	•	408.02	l		
45.213 45.273	8	426.34	P137	j	]]	57.172	1	407.90	3 ניא		l
45.529	5	426.25 425.85	P1 8	- 1	- 11	57.232	2	407,80			
45.611	i	425.69	1	1	- !!	57.364	1	407,60			
45.722	8	425.55	0,1	1	- 11	57.649	1	407.16			
	- 1		-, -	ı	- 11	57.775	4 1	406.97	l i		

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	1	ν	Cla	esification 5-5	1				ssificat	ification	
					<del> </del>	f					
8057.636 58.011	2	12 406.87 406.60	O <sub>13</sub> 5	:	8790.336	1 1	11 373.01			S <sub>32</sub> 11	
58.191	6	406.33	0126	1 1	92.449	1 1d	370.28 368.72				
58.375	14	406.04	O <sub>LL</sub> O	1 1	97.410	i"	363.86	1		532 10	
56.733	1	405.49		1 1	8801.197	l i	358.98		S2111	23,2-	
- 1					1					l	
59.162	1	404.83	0136		01.668	1	358.37	1		R, 15	
59.423	8	404.43	0127	1 1	04.190	3	355.11	1		S <sub>12</sub> 9	
59.623 60.365	1 2	404.12	^ -	1 . 1	08.879	0	349.07	1	521 10	1	
60.550	4	402.98 402.69	047	1 1	09.788	3	347.90 347.72				
00.550	*	302.09	0128	1 1	09.920	,	341,12	[ 1		T315	
60,970	1	402.05		1 1	10,649	2	346.79			533 8	
61.247	1	401.6Z		1 1	11.903	ĺЪ	345.17	1		R,13	
61,479	1	401.27	0,,8	1 1	13,021	3	343.74	1		E, 13	
61.557	6	401,15	0129		16.325	3	339.48	li	S21 9		
62.027	3	400.42		•	16.762	7	338.92			S1, 7	
62.450	Z	399.77	G1210	9نا0	17,141	ı	338.43			R,212	
62,595	1	399.55		, "	17.537	2	337.93	[ ]	1	] T.,4	
63,193	3	398.63	Oull	!!!	17.689	1	337,73		l	5,17	
63.374	į	396.35	0110		18.250	2	337.01	ا ـ . ـ ا	1	R, 12	
02,515	۱ '	398.04		1 1	20.701	1	333,86	R <sub>1</sub> 15		1	
63.759	3	397.76	N <sub>13</sub> 5	0,212]	21.956	١.	332,25	) i	R <sub>2</sub> 13	1	
63.817	i	397.67	.,,-	- 444	22,021	3	332.16	ļ i	1	R,211	
64.261	1	396.99	O <sub>11</sub> 13		22.519	5	331.52	1	!	8,16	
65.765	1	394.68		] ]	22.923	1	331.00		R <sub>21</sub> 13	1	
65.920	3	394.44			23.037	1	330.86			ł	
66.973	1	394.82	Nus		23,155	5	330.71	<b>(</b>		R, 1	
68.336 68.512	1	390.73			23.437	1	330.34	1	١	8,16	
70.080	2	390.46 388,05	N		23.518 24.206	2	336.24		S <sub>21</sub> 8	1	
71.376	6	386.06	N <sub>13</sub> 7		24.200	1d	329.36 328.66		l	7.1	
		1		]	27.17.	1	1	]	I	T313	
71.532	2	385.82		[ [	26.610	2	326.27		1	R3211	
74.464	1	381.32			27.549	14	325.06	R <sub>1</sub> 14	I	{	
75.159	2	380.26			27.669	1 1	324.91	[	l	I	
76.384 77.925	1	378, 38 376, 02			27.746 27.908	9	324.81		R <sub>2</sub> 12	R, 10	
11.763	١,	310,02	ļ	] [	21.708	, ,	324.61	<b>!</b>	Į .	5,1,5	
81.438	1	370.64			28,661	164	323,64		B.212	1	
	l	t i	l		28.816	4	177,44	1	""	B <sub>31</sub> 5	
	<b></b>	<del></del> _	·	<u> </u>	29.634	100	147.43	:	l	Ω, 1	
C 1	L.	***	_11	عاد عاد عاد د	36. 16	1	371.35	1	S <sub>22</sub> 7	1	
felloway i	ian.	mese e con s. The Pal II	ne who	colouides	21.855	6	32r.82	Į į	1	R229	
with the m	iain i	nead (P1) is g	iven.	0,,,,,,,,,,,	31.544	4	319.94	ł	1	T,12	
		1/ 8			31.769	o	319.65	•	ļ	Raly	
), i	1	Y	bana		31.546	7	319.26	)	1	R, 9	
	_	12.16. (*			32.909	7	318.19		]	8,14	
8215.50	3 2	12 183.61 11 943.98	5-4 4-3		33.032	1	318.04	1	1	1	
8371,12 8541.54	6	11 702.91	3-2		33,133	١,	317.91	1	<b>9. 11</b>	1	
87203	å	11 450.76	2-1		33, 793	14	317.06	1	R <sub>2</sub> 11	8,14	
					34.085	3	316.69	1	Ratt	1 31	
**		onal structur			34.155	3	315.60	R <sub>1</sub> 13		1	
	has	bz sivo- bı	C +01	t (15°2).	34,752	4	315.83	1	ì	Rus	
					35, 603		314.63	1	j	Rais	
						,	1 115.05				
						1.6		;	]	N 31 0	
					35. 65	5 4	216 %	j	] [ to = =	R,	
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8837.869 38.078	8 1 bci	11 311.84 311.57			T31 i	8856.397 56.469	1	11 288.18 288.09		R2 6	Ω <sub>32</sub> 8
38.288 38.362 39.211	9 7 1	311.32 311.21 310.12		R <sub>2</sub> 10	R <sub>32</sub> 7 S <sub>31</sub> 3 R <sub>31</sub> 7	56.547 56.685 57.305	3 2 4	287.99 287.81 287.02		Q <sub>2</sub> 13	Ω <sub>22</sub> 3 Ω <sub>22</sub> 7
39.290	2	310.02		RHIO	Y31,	57.398	6	286.90		R216	u <sub>n</sub> ,
39.458 40.602	9	309.81 308.35	R <sub>1</sub> 12		R, 7	57.502 57.569	2 6	286,77 286,68			C <sub>M</sub> 4 Q <sub>1</sub> 8
41.297 41.443	3 7.	307.46 307.27			Q <sub>3</sub> 15 R <sub>32</sub> 6	57.682 57.791	2	286.54 286.40		Q <sub>23</sub> 13	Ω126
41.653 42.354	8 0	307.00 306.10			S <sub>32</sub> 2 R <sub>31</sub> 6	57.870 57.959	4	286,30 286,19			Ω <sub>32</sub> 5
42.467	3 6 5	305.96 305.75 304.95		ъ о	5 <sub>21</sub> 2 R <sub>3</sub> 6	58.032 58.318	1 10	285.73			Q <sub>3</sub> 3
43.259	8	304.57		R <sub>2</sub> 9 S <sub>21</sub> 5		58.477	1	285,53 285,34			C <sub>1</sub> 7
43.662	6 10	304,43 303.74		R <sub>21</sub> 9	T <sub>11</sub> 0	58.776 58.899	9	285,14 284,99	R <sub>2</sub> 9		Ω, 4
44.618 45.129	2	303.21 302.56		Ω <sub>2</sub> 16	Q <sub>3</sub> 14 R <sub>11</sub> 5	58.998 59.094	9	284.8 <b>\$</b> 284.75			Ω <sub>3</sub> 6 Ω <sub>3</sub> 5
45.234 45.350	10	302.42 302.23			S <sub>32</sub> 1	59.622 59.800	3	284.07 283.84		Q <sub>2</sub> 12	
45.419 46.098 46.540	10 5 7	302.19 301.37 300.76		[Q <sub>32</sub> 13	P.3 5 S31 1	60.358 60.485 61.278	1 10	203,13 202,77 281,96		R <sub>2</sub> 5	n £1
46.834	4	300.10	R <sub>1</sub> 11	[/=33.7	R <sub>32</sub> 4	67,531	,	280.37	Ω, 15	S <sub>21</sub> 2	R <sub>21</sub> 5]
47.597	5	299.40 299.14	·		Ω <sub>3</sub> 13 R <sub>3</sub> 4	67.800	6	280.02 278.80		Q <sub>1</sub> 11	
47.922 48.442	9	298.99 298.33		R <sub>2</sub> 8	R323	63.935 64.005	2	278.56 278.49		Q <sub>23</sub> 11 R <sub>2</sub> 4	
48.725 48.566	3	297.96 297.78		R <sub>M</sub> 8		64.496 64.698	5	277.86 277.61	R <sub>1</sub> 8		
49.077 49.222 49.311	0	297.51 297.33 297.22		Q <sub>2</sub> 15	Q <sub>32</sub> 12 R <sub>31</sub> 3	64.894 65.528 66.482	7 4	277.36 276.55 275.14		R <sub>21</sub> 4 Q <sub>2</sub> 10 Q <sub>21</sub> 10	
49.722	6	296.69		844		66.670	9	275.10		Sul	O <sub>2</sub> 10]
49.785 49.885 50.273	5	296.61 296.48 295.99			R <sub>3</sub> 3 R <sub>31</sub> 2 G <sub>3</sub> 12	66,992 67,385 67,760	5	274.69 274.19 273.71	Ω, 14	R <sub>4</sub> 3	P3 4
50.758	1	295, 37			123 17.	67.997	ė	273,41		C2 9	
51.405 52.329 52.473	6	294, 54 293, 36 293, 18		[Ω <sub>32</sub> 11 R <sub>2</sub> 7	R <sub>5</sub> ?	68.113 68.256 68.951	10	273.26 273.08 272.20	]	R213	
52.619 52.739	7	292.99 292.84			Q <sub>3</sub> 11	69.149 70.055	3	271.95 270.80	R <sub>f</sub> 7	Q219 Q239	P <sub>3</sub> 5
52.901	3 2	292.64 292.50	R <sub>1</sub> 10	0.14		70.194	5 2	270.62		Q <sub>2</sub> 8	
53.009 53.263 53.491	8	292.17 291.83	Q 17	ា <u>រ</u> 14 ឧ <sub>ល</sub> 7	O <sub>32</sub> 10	71.147 71.243 71.362	5	269.29 269.14	Q <sub>1</sub> 13	Q <sub>11</sub> 8	Q2:8]
54,628	1	290.43	ľ		Ω <sub>3</sub> 10	71.726	3	269.67		S <sub>21</sub> 0	
54.792 55.127 55.635	2 9	290.22 289.80 269.15		S <sub>21</sub> 3	Cor.9	72.131 72.698 73.074	2 5	268.16 267,44 266.96		Ca 7	P, 6
55.820 56,279	i 9	253,90 288,33		"	Ω <sub>33</sub> 2 Ω <sub>3</sub> 9	73.195 73.309	1 6	266.81 266.66		Ozi7	

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λ	1	v	Classification 1-0			λ	I	Glassification 1-0			
6073.809	4	11 266.03		Ω, 6	<del></del>	8890.632	1	11 244.71		ъ .	Γ
	ī	265,71		122	1		8			P <sub>k</sub> 8	ł
74.059					ł	90.897		244.38	R <sub>1</sub> 3		
74.208	â	265.52		Rul		90.998	5	244.25	[P <sub>2</sub> 11]	P, 9	P2:13
74.737	3	264.85	1	Q <sub>21</sub> 6		91.149	8	244.06		P <sub>2</sub> 10	P237]
74.880	5	254.67	1		P, 7	91.211	4	243.97		O233	1
75.005	4	264.51	•	റുമ6	1	91.682	1	243.38		Pn12	i
75.109	1	264.38	1 1			91.794	5	243,24		- P <sub>23</sub> 8	1
75.222	6	264.23		Q <sub>2</sub> 5		92.021	5	242.95	Q <sub>12</sub> 7		i .
75.312	3	264.12	Q1 12		1	92,118	3	242.83		Pnii	•
75.463	5	263.93	R <sub>1</sub> 6			92.174	6	242.76		P219	
76.142	5	263.07		Q <sub>21</sub> 5		92.283	2	242.62		Paile	1
76.252	1	262.93			1	92.815	.1	241.95		- 43	ſ
76,383	2	262.76		Ω <sub>2</sub> 4	1	92.903	i	241.84			i
76.450	8	262.66	1	Q <sub>3</sub> ,5	1	92.963	10	241.76	Ω, 7		ł
76.641	3	252.44		-335	P, 8	94.509	i	239.81	×1,		i
76 741	١,	362 31				05.000	i . :				i
76.741	2	262.31	<b>!</b>	R <sub>21</sub> 0		95.088	3	239.08	Q <sub>1x</sub> 6		l
77.159	1 1	261.78	] . ]		ا, ا	95.258	3	238.86		O234	1
77.297	5	261.60	i .	Ω214	O2 3]	95.431	1	238.64	P, 17		ł
77.660	5	261.14		(kis4		95,804	4	238,17	RIZ		1
77.999	5	260.71		Q <sub>2</sub> 2	P3 9	96.024	9	237.90	Ω, 6		ł
78,181	5	260.48	Qi211	Q <sub>21</sub> 3		98.031	6	235.36	Q125		l
78.662	8	259.87	1 -	Ω23		98.886	1	234,28			1
78.801	2	259.69		Q212	l l	98.956	10	234.19	Ω, 5		1
73.977	2	259.47	1		P, 10	99.100	6	234.01	~, ·	O235	ł
79.183	8	259.21	Ω <sub>1</sub> 11	$\Omega_{kl}1$		99.981	1	232.90	P <sub>1</sub> 15		}
79.322	9	259.03			P, 14	8900.587	6	232.13	R, 1		i
79.517	5	258.79	1 1		P 11	00.752	i	231.93			I
79.577	3	258.71		Q232	.,,	00.855	4	231.79	الما		i
79.729	2	258,52	1		P, 13	01.756	9	230.66	Ω124		•
79.828	1	258,39	l i		P, 12	01.960	ĺó	230,40	Q; 4 P; 14		l
BC. 393	1	257.68	]		1	02.735	5	220.42		٠,	ł
80.538	9	257.49		A 1	1		li	229.42	P1213	O <sub>23</sub> 6	Į .
80.664	1	257.33	1	Ω <sub>25</sub> 1	1	03.411	6	228,57			l
80.732	9	257.24			1	03.565		228.38	Q <sub>15</sub> 3	ļ	1
81.939	1	255.72	R <sub>1</sub> 5			03.727	2	228.17 227.43	P <sub>1</sub> 13		1
		i	1			1		ł			l
82.877	6	254.53	Q 10	l		04.441	10	227.27	Q <sub>1</sub> 3		1
84.547	6	252.41	ا ـ ـ ا	P232	1	05.191	2	226,33	R <sub>1</sub> 0	ł	[
85.443	3	251.27	Q129			05:292	2	226,20	F; 12	l	1
85.076 85.154	6	250,73 250,38	R <sub>1</sub> 4	ا ۱۸ و		05.557	1 4	225.86	1	l	1
02.124	<b>'</b>	2,0,36		P <sub>2</sub> 16		05.705	'	225.68	171211		
86.225	10	250.29	1	Pu3	;	06.115	7	225,16	1	0237	1
86.329	1	250.16		-	} !	06.189	2	225.07	Ω122	- 23.	1
86.348	10	250,07	Ω, 9			06,668	6	224.46	P, 11	l	i
87.638	1	248.50		P <sub>2</sub> 15	ĺĺ	06.780	Ιĩ	224, 32		l	1
87.778	8	248.32	1	P234		06,911	3	224.16	P1210	1	
87.897	2	248,17	1	P <sub>1</sub> 5	i	97.013	7	224.03			l
88.801	Ž	247.03	Ω138	P <sub>2</sub> 14	1	07.779	li	223.07	315	l	i
89.066	Ž	246.69	~45	P. 6		07.865	1 3	222.96	امد .ط	l	i
89.135	10	246.60		P25	1	07.940	1 7	222.86	P <sub>1</sub> 10	l	1
89.761	7	245.81	Ω <sub>1</sub> 8	- 13-		08.718	3	221.88	P <sub>12</sub> 9	i	ļ
89.863	2	245.68		P <sub>2</sub> 13		08.819	5	221 74	<b>]</b>		1
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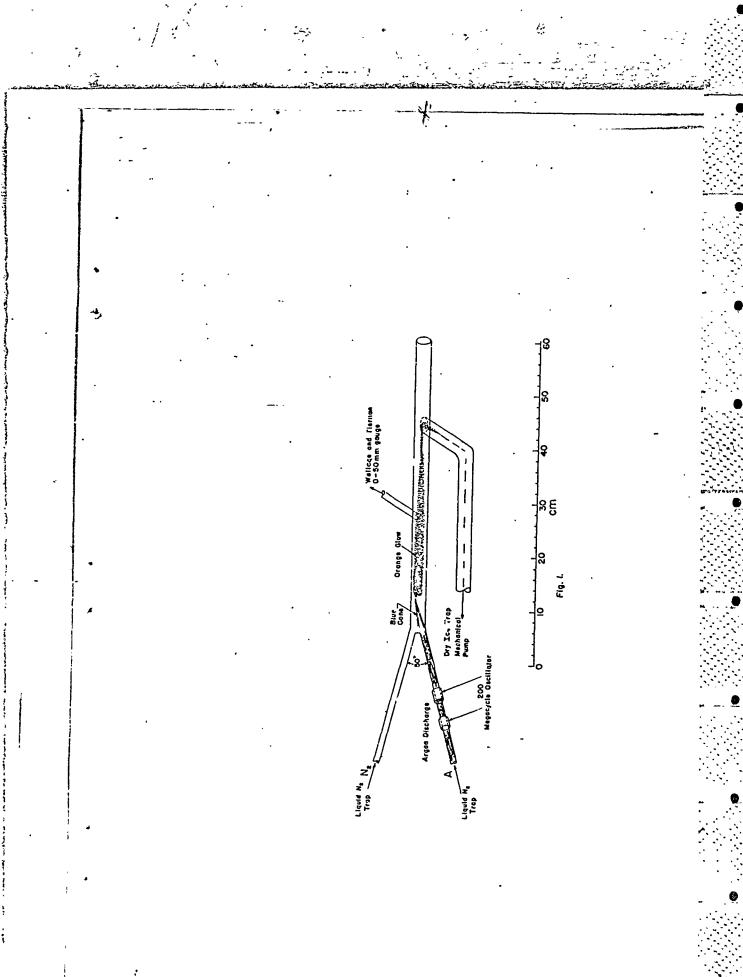
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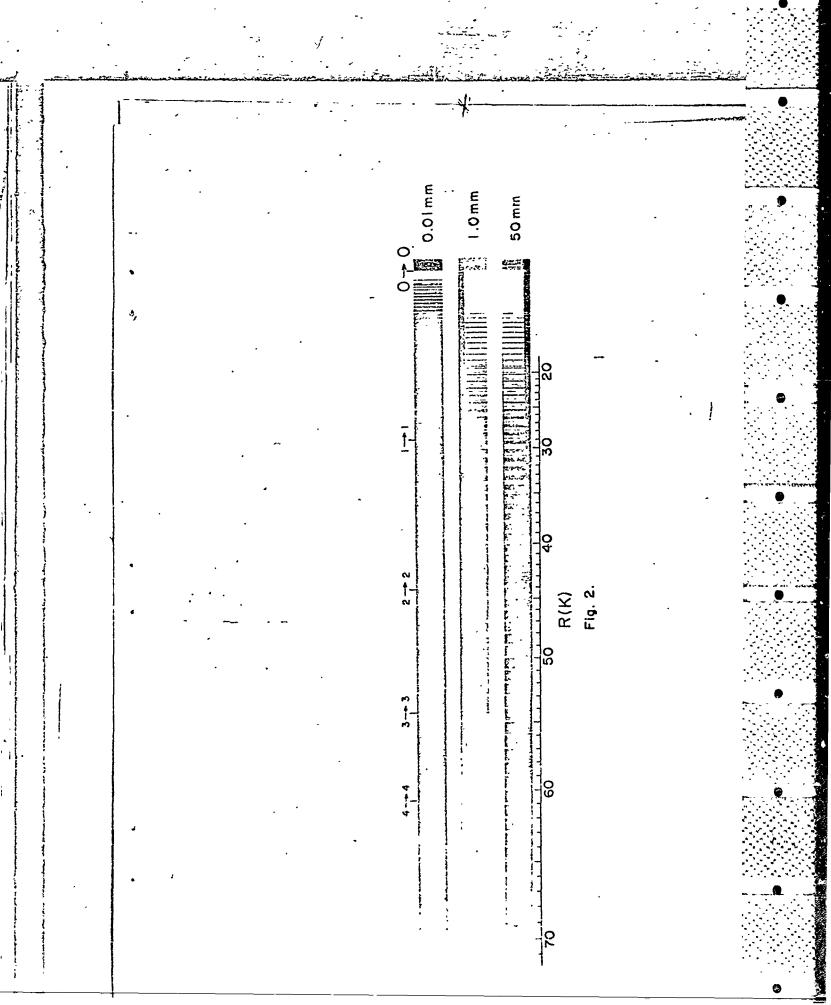
## CAPTION OF FIGURES

Figure.1. Tube for exciting N2 afterglow in argon

- 0-0 band of the second positive group at various rotational temperatures
- 3. Transition scheme of the first and second positive groups showing the measured and analyzed bands. The numbers in the circles are the vibrational quantum numbers v. The small numbers below the circles indicate the number of steps that are required in the application of the combination principle to obtain the energies. Dotted lines show transitions without rotational analysis
- 4. Lambda doubling of the v = 2 level of  $B^3II$ . Ordinates in cm<sup>-1</sup>
- 5.  $F_i(J)$  BJ(J+1) of  $B^3\Pi$  showing departure from case a. The broken lines are the asymptotes for case b
- 6. Intensity anomalies in the 0-0 band of the 2nd positive group.

  Low pressure, low temperature discharge
- 7. Perturbations in  $v^1 = 1$  of  $C^3\Pi$  for  $F_1(21)$  and  $F_2(17)$  shown by the R-branches in several bands
- 8. Perturbation in the  $F_1(21)$  level of  $C^3\Pi$  v = 1. (Left unperturbed, right actual levels.)
- 9. The R-branches in the 1-3 band of the second positive group.
  Above normal discharge, below afterglow in argon
- 10. R-branches in bands with  $v^t = 3$  showing the anomalous intensities





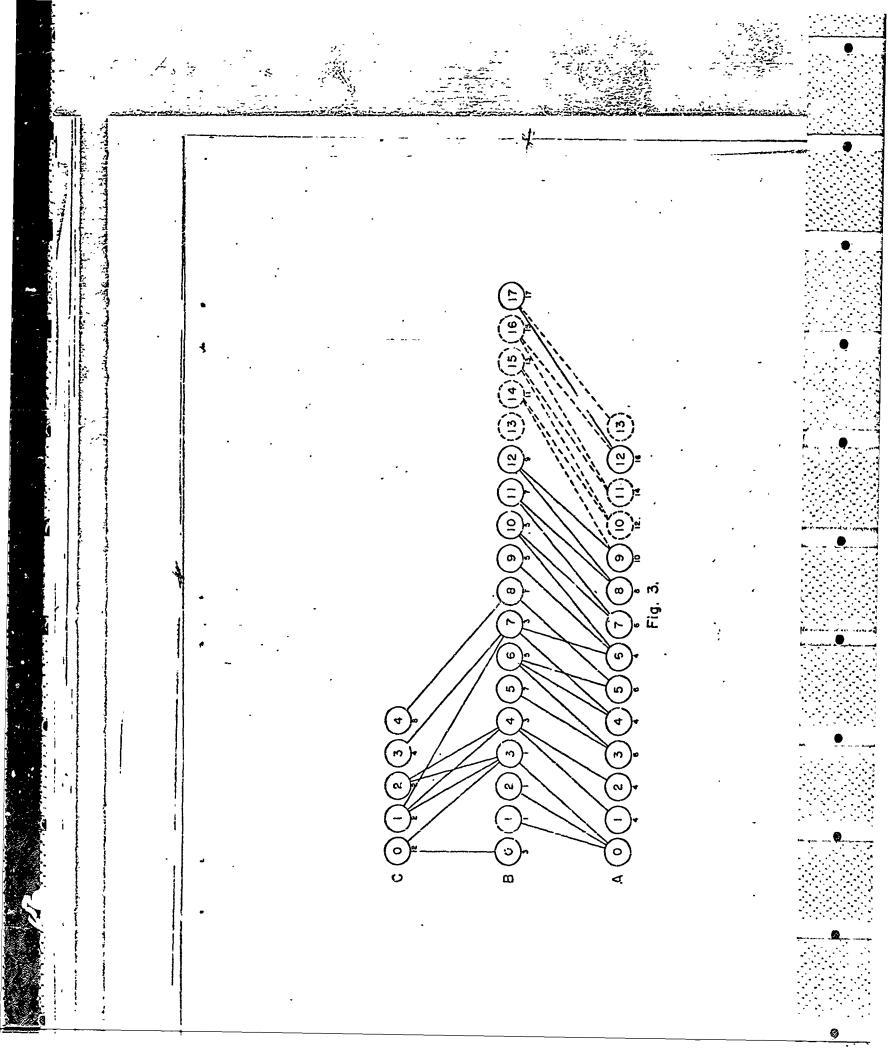
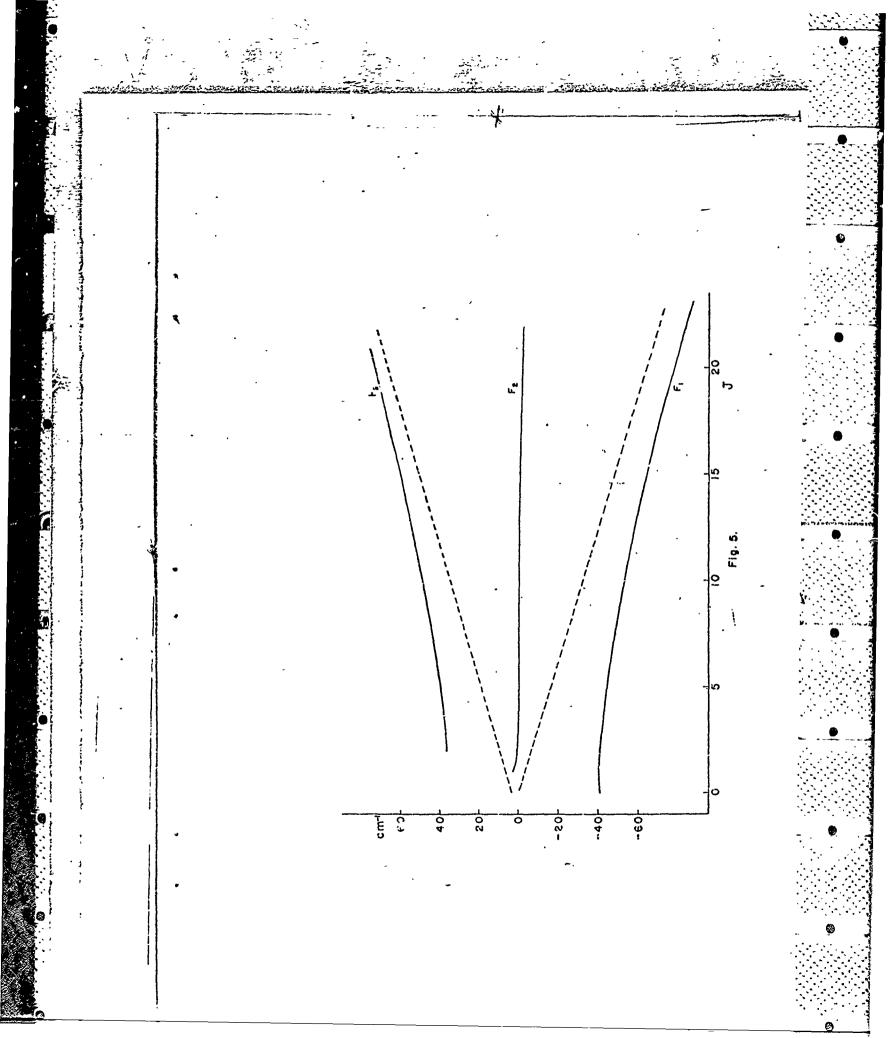
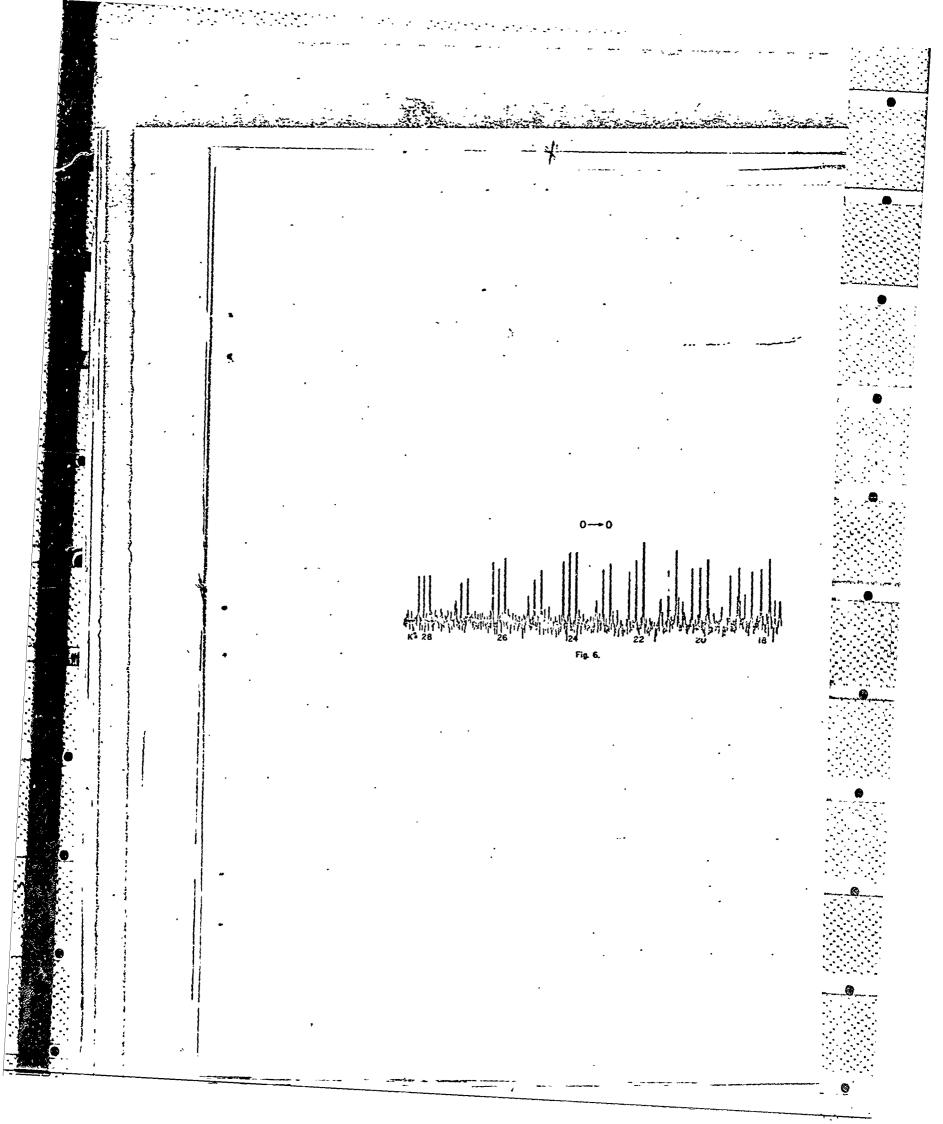


Fig. 4. 





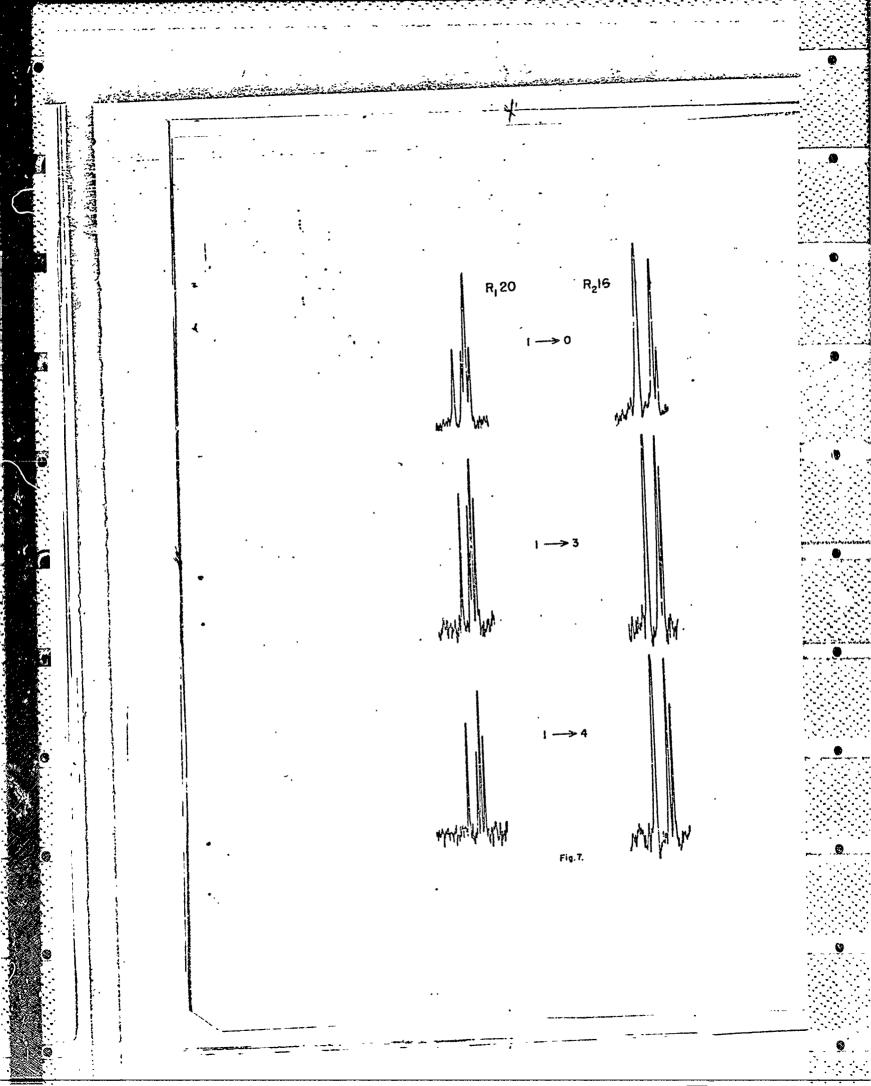
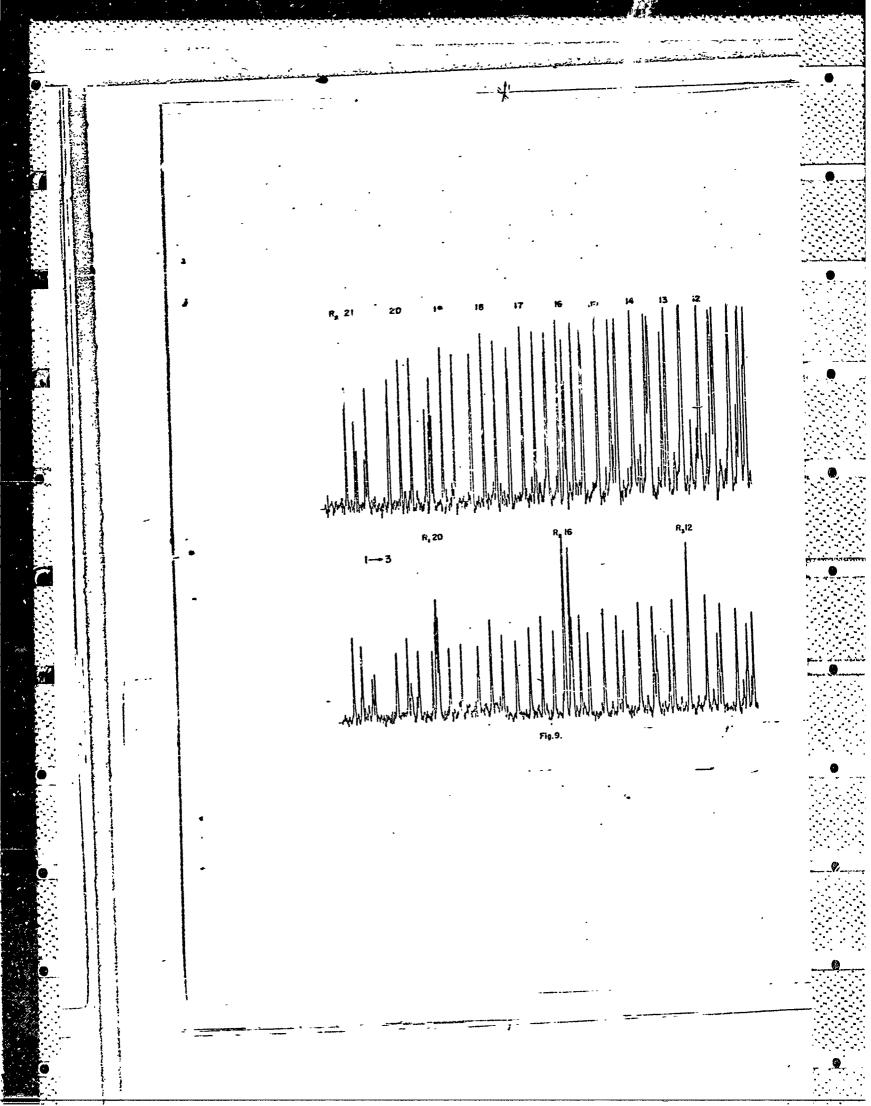
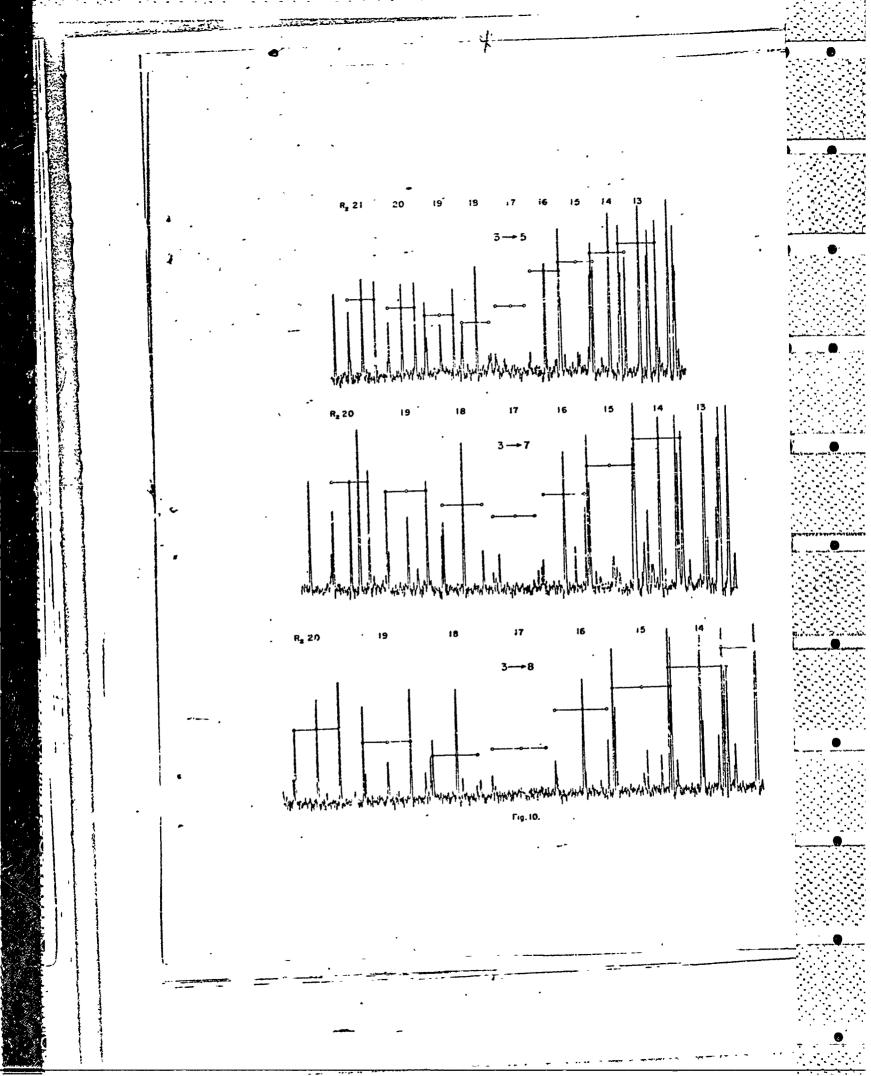


Fig. 8.





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